CHEMIST AND DRUGGIST

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SEPTEMBER 1 1962



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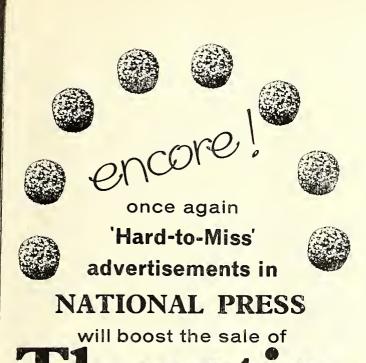
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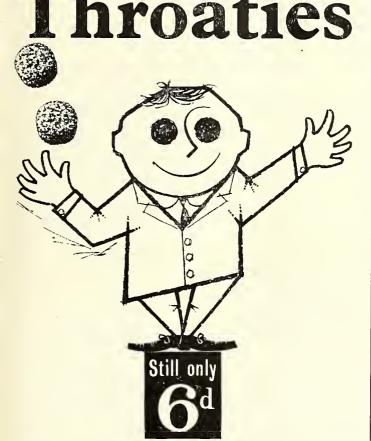
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THE CHEMIST AND DRUGGIST

THE WEEKLY NEWSPAPER FOR PHARMACY and all sections of the drug, pharmaceutical, fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and of the Pharmaceutical Society of Northern Ireland

Volume 178

September 1, 1962

No. 4307

CONTENTS

Branch Discussions on	"the Report" 223
Ensuring Drug Safety	209
Examination Results	208
Guide to New Medican	nents 220
Leading Articles:—	
New Irish Pharmacy	Act 215
Overseas Trade in Ju	
Displaced Traders an	d Their Interests 216
London's University Dis	
Modern Merchandising	-
Multidose Vaccine Spray	
	216
Report on Animal Hea	lth Services 208
Topical Reflections	207
Town-centre Site for N	ew Pharmacy 222
Business Changes 213	New Companies 212
Coming Events 229	New Films 216
Commercial Television 229	New Products 210
Company News 212	Notes on New Medica-
Contemporary Themes 230	ments 230
Correspondence 214	Overseas News 224
Deaths 213	Patents 230
Legal Reports 212	Recent Research 216
Marriages 213	Trade Marks 229
Medical Abstracts 216	Trade Notes 211
New Books 219	Trade Report 227
Index to Advertisers, Pp. 5 & 6. (Classified Advertisements, p. 47.
Cumulative price list (home co	pies only): loose supplement.

PUBLISHED BY

MORGAN BROTHERS (PUBLISHERS), LTD., at 28 Essex Street, Strand, London, W.C.2 Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

MEMBER OF THE AUDIT BUREAU OF CIRCULATIONS

MORGAN BROTHERS (PUBLISHERS), LTD. 1962

GLASGOW: 160 Nether Auldhouse Road, S.3. Phone: Langside 2679. LEEDS, 16: 32 Wynford Rise, West Park, Phone: Leeds 67 8438. WOLVERHAMPTON: 89 Woodland Avenue, Tettenhall Wood. Phone: Wolverhampton 52301.

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Volume 178

SEPTEMBER 1, 1962

No. 4307

Census of Production

PRELIMINARY DETAILS FOR 1963

THE next full and detailed Census of Production will be taken in 1964, in respect of business done in 1963. A detailed census of this kind is now taken only once in five years, the last one having related to 1958. The censuses of production for the years from 1959 to 1961 were of a simple character, and so will be the census to be taken next year relating to 1962. The census for 1963 will include detailed questions about the different classes of goods bought and sold, and also questions about certain business expenses, but full particulars will be required only from larger firms employing twenty-five or more persons. Information copies of the forms to be completed by larger firms are being issued shortly in order to give them the opportunity of adapt-ing their records where necessary so that the figures required for the census may be extracted more easily when the time comes. The census forms for 1963 will include questions on: -Working proprietors, employment, wages and salaries, etc., stocks, capital expenditure, work done by other firms, transport costs and certain other expenses, materials, goods and fuel purchased, and sales and work done. Firms with fewer than twenty-five employees will be required in this census to state only the nature of their business and the number of persons employed, except in a few industries in which they contribute a substantial proportion of the total out-

Nielsen Drug Index

FALL IN TURNOVER REPORTED

"THE average weekly total turnover obtained by retail chemists during March and April was £5,183,000 and this represented a marginal drop from the figure reported for the corresponding period of last year. The reason for this decrease was, of course, the lower volume of National Health Service payments received during this period." That information is given in the Nielsen Drug Index Retailers Report. The comparable turnover figure for 1961 was £5,221,000. The average weekly cash sales in retail pharmacies were, multiples, £358; large independents £288; medium independents £157; small independents £83. Compared with the corresponding figures for 1961 changes can also be expressed as:—Multiples, an increase of 2.4 per cent.; all independents, a fall of 3.8 per cent. It was estimated that the multiple pharmacies ob-

tained 37·3 per cent. of the total turnover during the period whilst the large, medium and small independents obtained 26·3, 20·2 and 16·2 per cent. respectively. The average weekly National Health Service payments per shop were:—Large independents £191; multiples £142; medium independents £122; small independents £69. During March independent pharmacies dispensed 67·6 per cent. of the National Health Service prescriptions, an average of 1,166 per shop per month, whilst multiple pharmacies dispensed 32·4 per cent. (an average of 1,704 per shop per month). National Health Service payments amounted to 27·6 per cent. of the total turnover in multiple pharmacies and 39·9 per cent. in independent pharmacies.

Narcotic Drugs

BRITAIN'S REPORT TO UNITED NATIONS

THE total number of known addicts to manufactured drugs in 1961 was 470; of those, 189 were using synthetic drugs. Sixty-one of the addicts belonged to the medical profession or "allied groups." That information is given in the Government's report to the

United Nations on the working of the international treaties on narcotic drugs for 1961. Parcel post continued to be used as a means of illicit import of cannabis, and two attempts were made to smuggle it hidden among produce—in one case with tins of olives sent by freight from Cyprus and, in the other, in a box of dried fish from Nigeria; use was also made of newspaper packages posted from Jamaica. 11.2 kilos of opium were involved in the thirty-three seizures of that drug by H.M. Customs during the year. The number of persons convicted of offences involving dangerous drugs totalled 364. Evans Medical, Ltd., and Roche Products, Ltd., ceased to be licensed to manufacture codeine or morphine. Licences were granted to T. & H. Smith, Ltd., to manufacture anileridine and hydromorphinol, and to Smith Kline & French Research Institute to produce norcodeine for research purposes only.

Anti-Dumping Duties

NEW APPLICATIONS AND DECISIONS

THE Board of Trade has announced that applications for the imposition of



PHARMACIST WINS A MINI: Mr. J. L. R. Jones, M.P.S., The Pharmacy, Amlwch, Anglesey, accepts a new Mini-minor car, presented to him on behalf of Schick Incorporated (U.K.), Ltd., by Mr. G. C. B. Brown (managing director) (standing). Mr. Jones gained his prize in a competition in which entrants were required to place in order a number of suggested sales points and add a short note on the advantages of dry shaving.

anti-dumping duty on imports of phthalic anhydride and on gelatin and glue from other countries than previously stated, are being considered and that a decision on styrene monomer imports has been arrived at. They are: Phthalic Anhydride: In adddition to Austria, Belgium, Denmark and South Africa the application has been extended to include imports from Western Germany. Gelatin and Glue: In addition to imports from Austria, the Netherlands, Czechoslovakia, Poland, South Africa and Switzerland, the application has been extended to cover imports from Australia. Styrene Monomer: The Board are satisfied that imports from the United States are dumped and that this dumping has caused material injury to the British styrene monomer industry. In the case of imports from Canada and Western Germany the Board are satisfied that a case for action has not been made out. The United States exporter concerned has stated that shipments of styrene monomer to Britain will be suspended while the firm considers the Board's decision and they are taking no further action for the time being.

Industrial Design

COUNCIL'S ANNUAL REPORT

IN its seventeenth annual report published on August 27 the Council of Industrial Design stands up to those critics who complain that it concentrates on encouraging modern designs to the exclusion of traditional patterns that have proved commercially successful. The report points out that the task of improving British design is a longer term activity than immediate trade promotion. Though fully aware of the ommercial problems, the council must take a long view of its work and commercial continue to stress the more modern aspect of British production, which in the long run may become even more important than a reputation based on past successes." The chief factor limiting the council's wider influence and greater activity is stated to be financial; its grant during 1961 was £240,000. Income from services rendered amounted to 90 per cent. of that figure. The growing tendency in Scotland for outside bodies to turn to the Scottish committee of the council for advice gave some indica-tion of its value in business, industrial and educational circles.

Experiments on Animals

HOME OFFICE FIGURES FOR 1961

A TOTAL of 3,896,581 experiments were conducted on living animals during 1961 according to Home Office returns published recently (H.M. Sta-Office, tionery price eightpence). Throughout the year, or for part of it, 7,472 persons held licences, but 2,190 licensees carried out no experiments. Experiments performed under anæsthesia and terminated by killing the ani-mals while still under the anæsthetic totalled 54,041. 322,376 operative procedures were carried out under anæsthetics from which the animals were allowed to recover. The number of experiments not requiring anæsthetics was 3,516,164, which constituted about 90

per cent. of all those made during 1961. Those experiments were mostly inoculations, external applications, modifications of diet or environment or administration of a drug or toxin followed by clinical observation. The returns also include the following figures: In the course of cancer investigations 508 licensees carried out 233,273 experiments which included 57,661 performed under anæsthesia and 175,612 which did not require anæsthetics since they comprised merely simple injections, external applications or "feeding" periments designed to test for any possible cancer producing factors. For the diagnosis of disease in man or animals, 244,409 experiments were made (simple inoculations for the most part). On behalf of Government Departments—including the Medical Research Council and the Agricultural Research Council —and also on behalf of local authorities, some 756,753 experiments (including a considerable proportion of the diagnostic experiments mentioned) were carried out. Over a million experiments were performed in the course of preparing and testing human or veterinary medicaments substances, 1,113,874 experiments for standardisation of sera, vaccines, or drugs as required under the Therapeutic Substances Act.

Wellcome Library

£80,000 FOR U.S. MEDICAL COLLECTION

ONE of the richest collections of medical Americana ever brought together has been acquired by the Wellcome trustees for the Wellcome Historical Medical Library in London. It will be available to scholars in a specially designed "American room," which forms part of a library extension to be opened by Lord Brain on September 25. The collection was formed by Dr. Francisco Guerra, who was until recently professor of pharmacology at the National University of Mexico and research associate and lecturer in the history of medicine at Yale University. It consists of manuscripts and early printed books which are the primary sources for the early history of medicine in the New World; Dr. Guerra has accepted a research fellowship from the Wellcome trustees to enable him to prepare a detailed catalogue of the contents for eventual publication. The Wellcome trustees allotted £80,000 from their trust fund for the acquisition of the collection. Of the 3,000 items many represent the only copies known. The territory covered in the literature extends from Canada to Patagonia and takes in the Caribbean islands.

Powder Technology

FULL-TIME COURSE AT BRADFORD

THE Department of Chemical Engineering, Bradford Institute of Technology, Bradford, 7, is to organise a full-time course in powder technology commencing in January 1963. The course, which is intended to last approximately twenty weeks, is the first to be announced in the new technology, which deals with the handling and processing of powders. Feeling that it is desirable

that the subject be taught more comprehensively and more systematically than in the past, Bradford Institute of Technology has accordingly taken steps to provide special equipment and laboratories to make it a leading centre in the field. The powder technology course is intended primarily for holders of a university degree or a diploma in technology in chemical engineering, but it will also be open to similarly qualified people in chemistry and mechanical engineering if they have had practical experience. The syllabus has been worked out by the organising lecturers, Mr. J. C. Williams and Mr. V. C. Marshall after discussions with representatives from industry, particularly those branches concerned with the handling and processing of powders. The organisers, however, will be prepared to discuss particular problems of any industry which cares to raise them, or to discuss future research

Training a Representative

ESTIMATED INITIAL COST £1,500-£2,000

SEVERAL recent surveys undertaken to ascertain the cost of recruiting and training a sales representative estimate the expense involved for the first year as between £1,500 and £2,000. Even so, such estimates cannot measure loss of consistent ineffectiveness both to the company and the man, states the Industrial Welfare Society. A one-day conference for sales executives arranged by that Society at the Connaught Rooms, London, on September 18, aims at spotlighting some reasons for the failure amongst sales representatives and making constructive suggestions for improving results. Principal speakers include Mr. C. A. Smith (director of sales training, Sales Audits, Ltd.) and Mr. A. W. Symington (management consultant, Urwick, Orr & Partners, Ltd.).

Pesticides

PROPOSED COMMON NAMES

COMMENTS on the following proposed common names for pesticides are sought by the British Standards Institution. They should be addressed to Mr. D. G. Berry, 2 Park Street, London, W.1.

CHEMICAL NAME	COMMON NAME
4-hydroxy-3-(1,2,3,4-tetrahydro- 1-naphthyl) coumarin	coumatetralyl
5-bromo-3-isopropyl-6-methyl- uracil	isocil
3-(3,4-dichlorophenyl)-1-meth- oxy-1 methylurea	linuron

IRISH NEWS THE REPUBLIC

Lourdes Pilgrimage

GROUP MEMBERS RECEIVE MEDALS

THE nineteenth annual Irish Pharmaceutical Pilgrimage to Lourdes left Dublin on August 2 and returned on August 16. Forty-two persons took part, led by Rev. E. J. Doherty, O.M.I. (spiritual director), and Rev. Father Hutchinson, S.J. The pilgrims were welcomed at Lourdes by Right Rev.

Monsignor Viscaro (rector of the Shrine). One of the men pilgrims was awarded a bronze medal, and five silver and three bronze medals were awarded to lady members of the group for their work in attending the invalids.

Limerick Inquest

WINTERGREEN OIL KILLS WOMAN

A VERDICT of accidental death, due cardiac failure, resulting hæmorrhage in the muscle of the heart following an overdose of methyl salicylate, was returned at an inquest on Mrs. Maric Doyle, Killeely, Limerick, on August 21. Evidence was given that Mrs. Doyle took a dose of oil of wintergreen at her home in mistake for cough mixture, and died less than twenty-four hours later in Barrington's hospital. After Dr. W. E. Bennett, a pathologist, had given evidence as to pathologist, had given evidence as to the cause of death, the coroner com-mented: "I notice that the bottle is not marked 'poison' or 'not to be taken.' Is it usual to have such a mark?" The witness replied: "I am not au fait with this preparation." Dr. F. Crowe, Limerick, said Mrs. Doyle had received all possible treatment, but because of the amount she had taken, he did not think anything could have been done to save her. The bottle was grooved at the back indicating that it could be recognised as poisonous in the dark. A final-year medical student said Mrs. Doyle had told him she had taken a mixture from a bottle by mistake as she had intended taking a cough mixture. She said she had taken a quarter of the bottle. A nurse said deceased had told her she had taken the wintergreen by mistake, adding that she did not want to turn on the light in case she awakened her baby.

IRISH BREVITY

THE REPUBLIC

THE Minister for Health (Mr. S. MacEntee) has made an order for the commencement of the Pharmacy Act, 1962 on September 1. Section 2 of the new Act will not be brought into force until the regulations under the Poisons Act are completed.

NEWS IN BRIEF

ON July 17 the Ministry of Labour retail price index was 120.4, compared with 120.9 in June (January 17, 1956 = 100).

THIORIDAZINE and the anabolic-androgenic steroids are the subjects of critical eviews in the August 24 issue of *The Medical Letter*, published by the Conumer's Association, Ltd.

MISS A. L. Winner has been appointed Deputy Chief Medical Officer of the Ministry of Health from April 23, 963.

THE Department of Scientific and Industrial Research has issued the report of its interdepartmental working party on groundnut toxicity research. Aflaoxin, a product of the mould Aspergilus flavus, is named as the toxic factor ound to have contaminated certain patches of groundnut meal fed to turkeys and other farm animals.

TOPICAL REFLECTIONS

By Xrayser

Wider still and wider

The recommendations of the Poisons Board, bringing chlorothiazide and its derivatives into the Fourth Schedule, is, in some respects, a little surprising, for the preparations were not of a character likely to lead to abuse in the same way as some of the other drugs recently brought under control. Nevertheless, there must have been sufficient evidence to warrant the Poisons Board taking the steps leading to control. The products are extremely powerful in action and at no time should they have been taken without medical supervision and control. It follows that the conditions imposed will lead to still more work being put on the shoulders of the pharmacist, with the need for a careful scrutiny of the formula of numerous proprietary preparations whose names do not readily suggest that they are affected. A number of compound tablets which contain chlorothiazide or its derivatives have already been brought into the net by reason of the presence of reserpine or allied substances. The situation in regard to legislation calls for a flexible mind and vigilance by the pharmacist.

Receipts

Commercial procedure has undergone a change over the past five years. Prior to the passing of the Cheques Act, the sending of a cheque in payment of an account brought a prompt acknowledgment of its safe arrival in the form of an official receipt which unequivocally stated that the firm in question had duly received the sum detailed. In many cases the receipt was accompanied by a polite little slip of paper expressing thanks for the remittance and the hope of a continuance of the happy relationship as exemplified by "further favours in the future." It was all polite, friendly and efficient, and within the space of two or three days, a neat little file reposed on the desk, composed of separate acknowledgment for each payment, making the task of the auditor, at a later date, simplicity itself. Almost overnight change came. A Cheques Act was passed which decreed that a paid, unendorsed cheque was prima facie evidence of the receipt by the payee of the amount for which the cheque was drawn. That put paid, unendorsed cheques in the same position as paid, endorsed cheques, it was announced. Immediately, the veneer of civilised convention was stripped off. Receipts now arrived only spasmodically, if at all. Those which did come might be a week or a month late. A clear receipt, such as we had known, became a rare document. It appeared, from sundry answers to questions in Parliament, that a receipt was unnecessary unless it was requested, but that when it was asked for, it must be furnished. It was also stated that nothing in the Cheques Act altered the position with regard to the Stamp Act, and that a receipt for any sum over £2, unless for a specifically exempted transaction, must bear a stamp. The Financial Secretary to the Treasury, on July 28, 1958, said that, if a firm disregarded a request for a receipt, it committed an offence under the Stamp Act, and the remedy was to report the matter to the Inland Revenue, which would proceed for a penalty.

Chaos

I am recalling the chain of events related above because of the condition of what I consider to be quite unnecessary chaos obtaining today. Some cheques go off into the blue, and it is necessary to procure, at regular intervals from the bank, the cheques themselves to have some evidence of payment. Other evidence may be produced in the form of the statement itself which may have come back bearing a strange variety of words, intended to convey, without saying so, that the cheque has been received—for, after all, if a clear statement of receipt is issued, it is necessary to affix a 2d. stamp. I am compelled to go to the trouble to ask for a receipt for every payment I make, and in doing so I cannot avoid the feeling that good manners and courtesy, not to stress efficiency, have gone from the business world. I find it regrettable in the extreme.

REPORT ON ANIMAL HEALTH SERVICES

Diagnosis, control and eradication of disease

THE Agricultural Departments have issued their joint Report for 1960 on Animal Health Services in Great Britain (H.M. Stationery Office, price 6s. 6d.), Although outbreaks of footand-mouth disease were the most serious since 1952, the year saw the successful completion of a plan to eradicate bovine tuberculosis. The report explains methods used to restrict the introduction and spread of animal diseases, and gives results of laboratory and farm experiments to diagnose, control and finally eradicate them.

At the Central Veterinary Laboratory, Weybridge, Surrey, production of mammalian and avian P.P.D. tuberculins reached 5,000 litres per year. Of that, about 500 litres went to Northern Ireland and 2,000 litres to Eire. The amount supplied (as tuberculin concentrate) under Ministry of Health contract was equivalent to about 100 litres of normal strength tuberculin.

A vaccine-toxoid was tested in a field trial against staphylococcal mastitis. Diffusion of antibiotics in the udder was studied, initially by using dye-marked penicillin; it was proposed to extend the technique to cows with mastitis, to de-termine any variations in diffusion with different disease states, and with different antibiotics in various diluents.

In controlled tests on sheep infected with Hæmonchus contortus, the anthelmintic Ruelene (4 tert-butyl-2-chlorophenyl methyl methylphosphoramidate) was 91 per cent. efficient at a dose rate

of 75 mgm. per kilo of body weight. The same degree of efficiency was noted using micronised phenothiazine against mature phases of *Nematodirus battus* in lambs; with immature forms success was reduced to 41 per cent. Neguvon (O,O-dimethyl 2,2,2-dichloro-1-hydroxymethyl phosphonate), highly efficient against adult worms, was confirmed inactive against immature stages of O. ostertagi and C. oncophora.

Results of plot-grazing trials with cows suggested that an increase in the sodium in relation to the potassium and nitrogen content of a pasture does not protect against development of hypomagnesæmia; also, the magnesium-content of the pasture is not the only factor concerned in the occurrence of that condition. No effect was observed after intravenous and intramuscular administration of vitamin D (up to 10,000 units) to some of the animals.

Subcutaneous injection of a copper calcium ethylene diamine tetra-acetic acid preparation into pregnant cows was found to lead to quicker and more complete absorption of copper than with copper glycine; there was little toxicity and a wide margin of safety in administration.

A trial was carried out to test the efficacy of the calcium disodium complex of ethylene diamine tetra-acetic acid against lead poisoning in calves. Whereas three out of four untreated animals died, seven out of eight treated calves survived.

One of the laboratory flocks of sheep became prone to "scald" — an acute inter-digital inflammation. A chloramphenicol ærosol, was found the best remedy, but trials indiciated that the active principle might not be the chloramphenicol, but one of the agents used as solvent, propellant or marker dye.

Continued work on liver fluke confirmed that intramuscular injection of carbon tetrachloride into animals was likely to give rise to muscle necrosis. In trials of bephenium hydroxynaphthoate against nematovirus, the optimum level and frequency of dosage were sought particularly for lambs grazing on land known to be carrying an appreciable level of infection.

EXAMINATION RESULTS

Successful entrance candidates, July 1962

The following candidates were success-

Anderson, D. V., Poynton (c); Bain, Marion G., Dumbarton (p); Bruce, L. A.,

ful in the indicated subjects in the entrance examinations of the Pharmaceutical Society, held in July (b=biology, c = chemistry, = physics).

A MULTIDOSE VACCINE SPRAY

Influenza inoculations by high-pressure jet

A UNIQUE anti-influenza service is to be offered to British industry this autumn by Crookes Laboratories, Ltd., Park Royal, London, N.W.10. For the first time in the United Kingdom an American invention—the Multidose Hypospray jet injector, or "jet spray" as it will be known—is to be used for mass inoculation of employees in offices and factorics. The company propose to send a specially trained team equipped with the "jet spray" around the country to carry out the inoculations at individual premises so as to interfere as little as possible with normal production.

The spray, which replaces the normal syringe and hypodermic needle, has been used with success in the United States and elsewhere for treating groups of persons quickly, painlessly and at a minimum cost in terms of time and money. It is understood to be capable of inoculating 300 or more persons per hour. To operate the spray, its nozzle is held against the recipient's arm for 3 seconds, during which time a dose of vaccine is ejected at sufficiently high pressure to achieve a subcutaneous injection.

The vaccine to be used is called Influvac. Prepared in accordance with the directions of the World Health Organ-isation, it contains the viral strains A2/305 (Japan 1957) and B/33 (Johannesburg 1958) inactivated with beta propiolactone and containing sodium ethylmercurithiosalicylate as a bacterio-

The vaccine has a potency of 12,000 hæmagglutination units. It begins to provide protection after 8-10 days.



Multidose " jet spray " inoculator.

Cults (c,p); Burden, Rita A., Cardiff (p); Campbell, N. A., Aberdeen (b,c); Cranston, Jean G. H., Aberdeen (b,c); Davey, P. W., Whitehaven (b); Davidson, Davey, P. W., Whitenaven (b); Davidson, D., Edinburgh (c,p); Donaldson, Eileen C., Aberdeen (c,p); Emmanuel, B. A., Wrexham (p); Goodwin, Joan, Nelson (p); Graham, L. R., Leven (c,p); Harman, H. M., Cleadon Village (c); Harvey, Carole S., Preston (b); Henderson, R. S., Tranent (p); Hopkin, J. D. K., Swansea (p): Horsburgh I. McI. Edinburgh (p); Horsburgh, J. McL., Edinburgh (b,c,p); Hulskramer, F. N., Methil (c); Kaye, D. M., Willaston-in-Wirral (b); Kitchen, D. A., Glenfield (p); Kopecky, Jacqueline A. B, Newcastle-on-Tyne (c); Kane, C., Methil (c,p); Ingram, Joan E. P., Newtongrange (c,p); Irvine, Eva S., Whitley Bay (p); Jamieson, C. W., Aberdeen (c,p); Jephson, R. A., Leicester (c); Lamb, D. A., Houghton-le-Spring (p); Lister, Barbara J., Welwyn Garden City (p); Littlejohn, I. M., Perth (b,c,p); Lloyd, D. B., Llandy, Swansea (p); McBeath, M. W., Shirley, Swansea (p); McBeath, M. W., Cullen (b,c,p); MacGregor, H. G., Aberdeen (b,c,p); McInnes, P. M., Edinburgh (b,c); McKenzie, Irene M., Lyrantow on Spey (c,p); McMurray, Elspeth W., Lochgelly (b,c,p); Macpherson, J. H., Dunoon (p); Malcolm, A. J., Alford (b,c,p); Milne, A. C., Aberdeen (c,p); Ncal, P. J., Halifax (b); Orr, Elizabeth H., Currie (p); Parsons, Judith A., Blackpool (p); Paton, Susan J., Edinburgh (b,c,p); Piggott, Heather M., Forfar (b,c); Rickard, Alice N., Swansea (p); Robertson, D. J. A., Tain (b,c,p); Robertson, P. C., Jedburgh (c,p); Ross, Elizabeth A., Edinburgh (c); Russell, A. C., Mussclburgh (b,c,p); Ryan, J. H., Swansea (p); Sillars, Ann B., Wallasey (p); Stevenson, G. M., Penicuik (c,p); Summers, R. S. S., Aberdeen (b,c); Thom, D. L., Montrose (c,p); Valentine, Barbara, Edinburgh (c); Wade, Julia H., Chelmsford (p); Walley, Kathleen E., Stoke-on-Trent (c); Williams, C. S., Llanelly (b); Young, Anne C., Dumfries (c); Young, G., Peterborough (p); Young, Norma M., Aberdeen (b,c).

Modern Merchandising Methods

REPORT RECOMMENDS SELF-SELECTION PLAN FOR PHARMACY

MODERN merchandising methods, as applicable to the retail pharmacist, are discussed in a report just issued by the National Cash Register Co., Ltd., 206 Marylebone Road, London, N.W.1.

There has been some resistance, says the report, when pharmacists have been confronted with such terms as self-service and self-selection. The terms have been misinterpreted and misunderstood to such an extent that they have become synonymous with a low-class operation. After pointing out that retail chemists as a whole are loosing their share of chemist and toilet goods trade to a considerable extent (between 1950 and 1960 expenditure in those groups increased by 81 per cent, whereas chemists' cash sales only increased 48 per cent.) the report states that independent pharmacy within its own sector is also losing out to multiples (43 per cent. against 86 per cent, increases between 1950-61).

The problems of the retail pharmacist are summarised thus: (1) The tremendous expansion in volume and variety of consumer goods since the war which most pharmacies have been physically incapable of dealing with properly because of limitations of space and staff; (2) The volume of merchandise available has overflowed to such an extent that it has been forced to pass through other channels such as food shops, etc.; (4) all operating costs have risen considerably, particularly wages; and (5) manufacturers and distributors are tending to concentrate their promotional activity on those outlets which they consider are more responsive to modern merchandising activity such as the grocer and the supermarket.

It would seem that the pharmacist, a professional man, is being forced more and more to rely on his commercial ability, his ability to sell, for the profitability of his business. To that end some pharmacists have already seriously considered a new system by introducing a degree of open displays. The main purpose being to stimulate more productivity in the business, by increasing sales volume at little or no increase in operating cost. In order to achieve that purpose, four basic principles are involved: (1) Fixtures are arranged in such a way that customers are encouraged to circulate throughout the whole shop, thus seeing all goods that are offered for sale; (2) goods are arranged within these fixtures in such a way that customers can see, pick up and examine; (3) staff are required to advise and sell only where necessary; and (4) taking cash is centralised at one point or two points preferably situated near the exit or at such points where maximum product and customer/cash control can be effected. As a medium for assembling purchases the counter is greatly exaggerated. That function can be performed quite adequately by a small cash-wrap stand and as a display medium the counter is "most inefficiOpen Display

The "open display" method is probably the most disturbing aspect of the modern trend in the mind of the pharmacist. He immediately, and quite rightly, says the report, visualises loss of control over drugs and pharmaceutical products which require super-vision. The question must be asked, however, "To what extent are such articles displayed in the shop?" It quotes an example of an average-sized pharmacy of about 400 sq. ft. where it was found that only 3 ft. of shelving was needed to display all pharmaceuticals which needed supervision — negligible compared with the wide variety of everyday proprietary products. Expensive perfumery, cosmetics and some photographic lines also need control in presentation but they can either be accommodated on a small section of wall shelving protected by glass or an attractive presentation can be made from a small glass showcase-counter which need be no more than 3 ft. long

On the question of pilferage the report states that the pharmacist must be prepared to risk that possibility for the much greater benefit of high-volume sales. The large majority of pharmacies have already taken this step by open counter displays; but it points out that there are dangers of relaxed supervision as assistants can be so easily distracted, as against the open selling plan where an assistant is placed continually on her guard in the midst of the merchandise range.

Individual selection is part of the regular shopping habit today of the majority of the public and it is foolish to resist this. The pharmacist and his qualified assistants naturally like to consider themselves as advisory experts, and justifiably so; but the report asks how frequently is one approached with "I want x's hand cream" as against "Can you recommend a suitable hand cream?"

able hand cream?"

Centralising cash handling has the double advantage of providing stricter cash control and of relieving many sales assistants of a time-consuming and onerous task. It is usually the case in the average pharmacy that there are not enough assistants to make it economical for one to be cashier only; however, the benefits of concentrated cash handling cannot be over-emphasised.

ENSURING DRUG SAFETY

Press conference at Sandwich

IT was the view of the Pfizer group of companies, said DR, A. M. BRUNTON (medical director), that a drug testing authority should be set up in Britain independently of the Ministry of Health and the pharmaceutical industry.

Dr. Brunton was speaking at a conference at Pfizer's Sandwich, Kent, laboratories on August 27 at which members of the Press were told about the stringent controls new drugs are subjected to before clinical trial and marketing, and invited to inspect testing

facilities at the laboratories.

Dr. Brunton suggested that the new authority should be set up under the Home Office (which already dealt effectively with the Dangerous Drug regulations), and should consist of a committee of pharmacologists and other experts empowered to reject a licensing claim for a new drug, if not satisfied with the testing procedure it had undergone. Manufacturers would be required to pay a fee with each submission so that the authority could finance an expert research group to develop new testing methods, He said that the College of General Practitioners had taken the initiative in setting up a register for reporting toxic effects (see C. & D., August 18, p. 157).

Mr. B. A. Forder (group control

MR. B. A. FORDER (group control chemist) gave an outline of present legislation concerning testing. He also gave an account of quality control and its function in maintaining the safety of established products. Analysts, he said, became involved at an early stage in the production of a new drug, by establishing specifications for new materials and developing physical, chemical and biological tests to ensure the purity

of each batch. Quality control was routine for all raw materials, intermediate and starting products—even packaging materials (which could have effects on stability and shelf-life).

MR. J. C. MACSWEEN (vaccine production manager) talked about the stringent testing procedures for oral polio vaccines. In four weeks ten to twenty million doses of monovalent Sabin vaccine could be produced, but it took five, six or even eight months to complete the testing of batches, at the end of which a detailed summary of all tests, "a protocol," had to be submitted for approval to the Medical Research Council who duplicated the tests.

Council who duplicated the tests.

DR. H. REINERT (director of pharmacological research) said the Pfizer group had its own animal breeding units in order to provide a reliable supply of experimental animals (quantitatively and qualitatively). The average annual use by the group was 500 dogs, 500 cats, thirty monkeys, 800 rabbits, 500 guinea pigs, 13,000 mice, 5,000 rats and 100 hamsters. Dr. Reinert stated that his company was "leaning closer" to the standards demanded by the American Food and Drug Administration, During a single twelve-month period, of approximately 200 compounds submitted to toxicity tests only four were later submitted for clinical trial.

During the afternoon discussion DR. BRUNTON suggested that "another thalidomide story" might be averted if a system of registration of live congenital abnormalities was set up.

In reply to another question, DR. REINERT stated the chronic toxicity tests undertaken by the group automatically included pregnancy tests.

NEW PRODUCTS AND PACKS

Children's Cough Linctus.—Tixyl is a new children's cough linctus introduced by Pharmaceutical Specialities (May & Baker), Ltd., Dagenham. It contains promethazine hydrochloride, pholocdine and phenylpropanolamine hydrochloride as the active ingredients, and is available in bottles of 125 mils and two litres.

Added to Range. — Glaxo Laboratories, Ltd., Greenford, Middlesex, have added Betnesol suppositories and Betnesol retention enema to its range of Betnesol preparations. Betnesol suppositories, each containing 1 mgm. betamethasone as disodium phosphate, are issued in boxes of six. Betnesol retention enema, each containing 5 mgm. betamethasone as the disodium phosphate in 100 mils, are packed in boxes of seven x 100 mils.

A Stimulating Agent.—J. R. Cockton & Co., Ltd., 21 Jockey's Fields, Bedford Row, London, W.C.1, announce that they are able to supply the drug Pemoline manufactured by C. H. Boehringer Sohne, Ingelheim am Rhein, West Germany. Pemoline is 5-phenyl-2 imino-4-oxo-oxazolidine. It is also described as 5-phenylpseudohydantoin or phenoxazole. Pharmacologically it has a central stimulatory action which is said not to cause increased muscular tension, tremor or impaired co-ordination.

Disintegrate Rapidly.—CIBA Laboratories, Ltd., Horsham, Sussex, announce the introduction of a new form of Vetidrex—250 mgm. dispersable tablets, which are specially formulated to disintegrate rapidly in water to form a suspension. Dispersible tablets may therefore be administered to cattle and horses either as a suspension or as a drench. Vetidrex hydrochlorothiazide is stated to be effective in a wide range of edematous conditions in large and small animals. Vetidrex dispersable tablets are issued in unique strip packs containing 5 individually sealed tablets.

An Oral Hypoglycæmic Agent.—A new oral anti-diabetic agent has been made available by Eli Lilly and Co., Ltd. Marketed under the trade name Dimelor, the new compound, acetohexamide, is related in structure to tolbutamide and chlorpropamide. In potency it is considered to lie between tolbutamide and chlorpropamide. The side-effects are minimal. On a cost per average dose basis Dimelor is more economical than either of those drugs. Dimelor is primarily indicated in the management of patients with stable, maturity - onset, non - ketotic diabetes mellitus which is not controlled by dietary regulation alone. It is not recommended for sole use in the treatment of patients having juvenile growth-onset diabetes, or with severe, unstable diabetes. The majority of patients are controlled by a single daily dose of Dimelor before breakfast. The total daily dose may vary from 250 to 2,000 mgm., but the average is 250-1,000 mgm. Dimelor brand acetohexamide is available in scored tablets of 500 mgm in bottles of 100 500 and 500 mgm. in bottles of 100, 500 and 1,000.

Infectious Sinusitis in Turkeys. — Pharmaceutical Specialities (May &

Baker), Ltd., have introduced Rovamycin soluble for the control of infectious sinusitis and air sacculitis in turkeys caused by the pleuro-pneu-monia-like organism (P.P.L.O.) known as Mycoplasma gallisepticum. Farm trials have shown that Rovamycin soluble clears up the disease in the air sacs and air passages, as well as in the sinuses. Clinical cures are achieved within seven days after treatment thereby reducing the losses due to poor weight gains and the culling of severely infected birds. The compound is administered by injection as a 10 per cent. or 20 per cent. solution under the skin at the base of the neck. A single injection is effective and it is not usually necessary to drain infected sinuses. A 35-gm. pack is enough for the treatment of approximately 115 seven-week old poults. The product is to be supplied by pharmacists on veterinary prescription only.

Pyrethrin Products.—S.D.C. Pesticides, Ltd., 99 Regent Street, London, W.1, who manufacture a wide range of synergised pyrethrin products, have an-nounced Pynerzone EC-24 which contains African pyrethrum synergised with piperonyl butoxide to give a pyrethrin equivalent of 24 per cent. It is diluted with water before use, and is effective against an exceptionally wide range of insect pests such as flies, fleas and cockroaches. It controls the common insects found infesting premises used for storing and processing food, feeding stuffs and other commodities, as well as lice, fleas, mites and other pests infesting livestock and animal houses. It is marketed in 1 and 5 gall. drums.

Totally Effective. — Claimed to be "totally effective" in destroying odours in the lavatory, Closet marketed by Durazone-Choice, Ltd., London, N.3, has been launched in the London area. The product has been developed in the company's research department and is being issued in aerosol form with a distinctive and attractive label. The active ingredients are essential oils and acrylic esters. It is germidical and combines chemically with "malodorous elements to render them innocuous." Closet is issued in 8 oz. aerosol packs.

Refillable Talc Container.—The elegant plastic containers in which Morny, Ltd., 201 Regent Street, London, W.1, issue their talcs have two special fea-



tures. One is that they are "colourtoned" in series with the Morny "fragrance-matched" ranges, the second that they are refillable. The base unscrews, and from the refill pack, which contains 5 oz. of perfumed deodorant talc in polythene sachet, the plastic container is easily recharged. The matching of fragrance with tone is as follows: French fern: "vibrant" green; blue carnation: kingfisher blue; June roses: "fresh" green: sandalwood: glowing red; pink lilac: soft pink; gardenia: turquoise; lily of the valley: primrose yellow and lavender flowers in a corresponding lavender pack.



REDESIGNED PACKS: Pantene oily and nonoily in the new bottle and carton in which it is now sent out, Makers are Thos. Christy & Co., Ltd., Aldershot, Hants.

A Luxury Range.—Lentheric, Ltd., 17 Old Bond Street, London, W.1, are marketing a luxury range for men



under the name of Onyx, to meet the demand that has increased enormously in the last few years. The packaging is modern, streamlined and keyed to the name—handsome cartons and talc. containers in a soft green onyx design, elegant opaque glass bottles, gilt-capped, with the name "chiselled" in bold simple lettering and, for travelling, smaller light-weight unbreakable bottles made of high-density polythene, also gilt-capped. The travel sizes are included in the Christmas gift set range but will not be on the market individually packed until January 1963. A new perfume has been developed for the range which includes talc., shaving creams, soaps, cologne, after-shave lotion, conditioning tonic hairdressing, deodorant, a shampoo that conditions as it cleanses, and a soothing and antiseptic pre-shave lotion for users of electric razors.

TRADE NOTES

A New Name.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, have announced that Haliborange liquid has been renamed First-Step Haliborange. The new name indicates more clearly that First-Step Haliborange is intended primarily for babies. The formula, presentation and price of this product remain unchanged.

Targets Shattered. — Sunbeam Electeric, Ltd., 14 Old Quebec Street, Marble Arch, London, W.1, report that the 555 Sunbeam electric shaver utilising three hollow-ground blades, has broken all previous wholesale sales records and shattered the current sales targets. Increased production schedules have been put in hand to cope with the demand.

Process Data Sheets.—Now product data sheets just issued by the J. T. Baker Chemical Co., Phillipsburgh, New Jersey, U.S.A., deal with lead, cobalt and molybdenum chemicals. Copies of the sheets and prices can be obtained from the U.K. distributors, OMNI (G.B.), Ltd., 35 Dover Street, London, W.1.

Italian Pharmaceutical Manufacturers.—Inverni & Della Beffa, S.p.A., via Ripamonti 99, Milan, point out that although their name did not appear in the recently published list of Italian pharmaceutical manufacturers (C. & D., June 30, p. 740), they are manufacturers of fine chemicals of botanical origin, medicinal specialities, drug extracts and galenicals. Their capital is lire 180 millions. The company recently sponsored a new work on botanicals, the first part of which has been published (see p. 219).

For the Coming Winter. — Beecham Research Laboratories, Ltd., Great West Road, Brentford, Middlesex, announce that their 1962/63 Flugen (Wright-Fleming Institute influenza virus vaccine) is prepared from equal amounts of the two strains of virus A2/Asian and B/England/939/59, the strains most likely to cause influenza during the coming winter. Immunisation with Flugen, which has recently been placed in category N by the Cohen Committee, is

particularly recommended for "special risk patients" in whom an attack of influenza may seriously aggravate their disability or prove fatal. The vaccine is standardised to contain 16,000 hæmagglutinating units per mil. It is available in ampoule packs of 1 mil; and 6 x 1 mil and in vials of 10 doses (containing 11.5 mil).

Amendments to List.—Glaxo Laboratories, Ltd., Greenford, Middlesex, announce that from September 3, the price of Predsol suppositories and Predsol retention enema will be reduced. Those holding stocks at close of business on September 1 are asked to supply details to the company for adjustments to be made to invoice prices. No claim form will be issued. The following products are being withdrawn from the above date and supplies will continue only until stocks are exhausted:—Dextelan tablets (dexamethasone) 0.5 mgm., and 1.0 mgm. bottles of thirty, 100 and 500; Prednesol tablets (prednisolone disodium phosphate) 5 mgm. in bottles of thirty, 100 and 250.

Information for Manufacturers

Foreign Trade Corporations List.—A new booklet which tells what the major Communist countries wish to buy, what they have to sell, and the address of each country's Trade Corporation, has been published by the London Chamber of Commerce (Inc.), 69 Cannon Street, London, E.C.4, price 10s. 6d. It also gives the address of the British Embassy in each country, the address of each country's Chamber of Commerce and the address of its Commercial Office in Britain.

Tetramethylene Sulphone Available.—Shell Chemical Co., Ltd., 15 Marlborough Street, London, S.W.3, state that they are now able to supply development quantities of Sulfolane (tetramethylene sulphone) and that commercial quantities of Sulfolane will be available shortly from its plant at Stanlow, nr. Chester. Sulfolane, a highly polar compound, is claimed to have outstanding solvent properties and high chemical and thermal stability. It is

miscible with water, melts at a little over room temperature, is thermally stable up to temperatures above 200° C., and has a high flash point.

Common Market Statistics.—What is claimed the first publication providing extensive marketing data about the European Common Market has been published by European Research Consultants, Ltd. Its title is European Marketing Data and Statistics. Under one cover, "all the information which is required about the European Economic Union is analysed, tabulated and presented. Information provided ranges from population data to sales statistics, and includes data from other countries in the world. The price of the publication is £21.

Greeting Cards Free for Charity.—
The Marie Curie Memorial Foundation, 124 Sloane Street, London, S.W.1, is issuing a simple Christmas greeting card bearing on its third page the legend "These greetings are no less warm and sincere for having been presented in a modest way. The economy so effected has directly benefited the vital cancer work of the Marie Curie Memorial Foundation, of 124 Sloane Street, London, S.W.1." The cards are being issued free with envelopes to any quantity of 250 upwards on the understanding that a donation equivalent to $66\frac{2}{3}$ per cent. of the cost of the last supply of cards purchased commercially is contributed to the Foundation (alternatively a quotation is given for supplies).

Bonus Offers

LAMBERT CHEMICAL Co., LTD., Eastleigh, Hants. Sloan's liniment. Fourteen invoiced as twelve. Offer open from August 20 for eight weeks.

POTTER & CLARKE, LTD., River Road, Barking, Essex. Potter's catarrh pastilles. Twelve invoiced as eleven on minimum order of three doz. tins. Through wholesalers only. Until October 15.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex. Tixyl children's cough linctus. 125-mil size, thirteen to doz. Until December 31

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2. Capriton tablets. Twelve invoiced as eleven on order for 4 doz. tubes of twelve; twelve invoiced as ten on order for 8 doz. tubes of twelve. Until October 20.—First-Step Haliborange. Twelve invoiced as eleven on order for 4 doz. bottles. Until October 20.

THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N.1, Multivite, bottles of 50 and 150, Pernivit, bottles of 50 tablets, Pernicream, collapsible tubes. Parcel A, thirteen to doz, on all orders for 3 doz, either single product or assorted but not less than 1 doz, of any product. Parcel B, fourteen to doz, on order for six doz, of any one of the same product or pack.

INFORMATION WANTED

The Editor would appreciate information about:

Retardex Tabakex

Hydrillin tablets



100-GUINEA DISPLAY: Window display with which Mr. H. Ridehalgh, Wimborne Road, Bournemouth, gained first prize of £105 in category B (stockists other than department stores) in a French Fern window-display competition organised by the manufacturers, Morny, Ltd., 201 Regent Street, London, W.1.

LEGAL REPORTS

Liquefied Phenol for Carbolic Oil

A RUGBY, Warwicks, pharmaceutical company was fined £5 at Rugby on August 17 when it was stated that a bottle labelled "carbolic oil" sold to a housewife had in fact contained an 81.2 per cent. solution of phenol in water. The company, J. T. Fleet, Ltd., 24 Sheep Street, admitted selling a drug not of the quality demanded by the purchaser. On behalf of Rugby Corporation it was stated that on May 11 the customer went into the defendants' shop and asked for a bottle of carbolic oil, which her husband used as a mild antiseptic on an old shrapnel scar on his head. The bottle she received was marked "carbolic oil." That night her husband applied some of the contents to his head, then cried out in pain, and where he had applied the substance his skin turned white. He immediately rub-bed the liquid off, but during the night complained of pain. Next morning he saw his doctor and was eventually sent to hospital for treatment. The purchaser took the bottle to the town's public health inspector and it was sent for analysis. The report received stated that instead of containing carbolic oil, which was 5 per cent. phonol in bland oil, it actually contained 81.2 per cent. phenol in water. Mr. L. W. Gregory for the company said his clients had asked him to say how sorry they were. The person responsible for supplying the liquid had now left the company's employment. He had neglected to inform the customer that the liquid was caustic. Gregory added that Messrs. Fleet had been in business in the town for sixtysix years and it was their first prosecu-The magistrates would perhaps take into consideration that excellent record. The chairman of the magistrates said they were sorry such a thing had happened but they had a duty to protect the public.

COMPANY NEWS

Previous year's figures in parentheses

R. & J. BECK, LTD.—Dr. W. John Bates has been appointed to the board in the capacity of technical director.

GASCOIGNE-CROWTHER, LTD.—Mr. Thomas Lovery (sales manager), has been elected to the board. He continues to be responsible for the sales side of the company's activities.

STERLING FARMACEUTICA PORTUGUESA, LDA.—The company has been formed by Sterling Drug Inc. and the Saxet Corporation, both of the United States, with the intention of producing and selling veterinary and chemical pharmaceuticals in Portugal.

GNOME PHOTOGRAPHIC PRODUCTS, LTD. — Despite difficulties, salcs have been maintained in the current year and the chairman (Mr. H. Loebstein) sees no reason why the company should not make sufficient profits to justify the continuance of the present 20 per cent. dividend rate. The decline in the net profit from £61,675 to £49,342 in the year which ended May 31, was almost entirely due to a fall in sales, Mr. Loebstein declares. Competition,

the inclement weather of last summer all had their effect on sales, but due to increased efficiency the net profit ratio compared favourably with last year.

PFIZER INTERNATIONAL.—The company has acquired African Chemical Corporation (Private), Ltd., a chemical manufacturing concern registered in Rhodesia. This follows close on the acquisition of Chotes Pharmaceuticals Proprietary, Ltd., by the Pfizer South African subsidiary. The acquisition of African Chemicals is a joint venture by Central African Pfizer (Private), Ltd., and Pfizer Laboratories (South Africa), Ltd. As a result Central African Pfizer acquires control of the Rhodesia subsidiaries, Rhodesia Chemical Corporation, Ltd., and Combined Sales, Ltd., while Pfizer Laboratories in South Africa takes over the Durban companies, Lush Products Proprietary, Ltd., and Lush Aviation Proprietary, Ltd.

BORAX HOLDINGS, LTD.—Trading profits amounted to £962,352 in the quarter ended June 30 (against £1,104,679 for the corresponding period of last year) after depreciation of £629,978 (£581,756). The American operating company suffered from strikes which depressed the June quarter's earnings. The nine months' trading profit, however, is up from £2,977,061 to £3,273,409. The directors state that group sales of boron products are running at a higher level than during the previous financial year. In the U.K. trade in general has not improved to any great extent and profit margins have been lower as a result of strong competition. The June quarter's net profit amounted to £538,034 (against £715,976) after tax of £398,519 (£343,995).

SCHERING, AG., Berlin, Germany. The annual report for 1961 states that in spite of the depressing effect of the currency revaluation on the turnover, the company was able to achieve an increase in terms of value 1961 which considerably excecded the average turnover increase both in the chemical industry (5 per cent.) and in West German industry as a whole (8 per cent.). This was largely due to the introduction of new products and a general strengthening of the company's market position. The group's world turnover amounted to DM247·2 millions as against DM210·8 millions in 1960, an increase of 17 per cent. The pharmaceutical sector achieved a vigorous increase in turnover of 17 per cent. (15 per cent.). This increase was largely due to newly developed products which were included in the production programme for the first time. The company's export ratio in the pharmaceutical field remained at 65 per cent. The company's foreign subsidiaries also developed favourably during the year under review. Income from licences con-Turnover of whollytinued to rise. owned foreign subsidiaries increased by per cent. In view of the Common Market and the need to concentrate on few but broad fields of activity, the company decided to give up its cosmetic participations and sold its interest in Pfeilring-Werke, AG, consisting of shares with a nominal value of DM1.9 millions, and the ordinary capital of Tarsia. GmbH with a nominal value of DM250,000.

NEW COMPANIES

P.C.=Private Company; R.O.=Registered Office

J. ELGAN JONES (CHEMIST), LTD. (P.C.). Capital £2,000. Directors: Joseph E. Jones and Ifan D. Jones. R.O.: Caerleon House, Pendre, Cardigan.

FRANK SUTCLIFFE (CHEMISTS), LTD. (P.C.).—Capital £3,000 Directors: Frank Sutcliffe, M.P.S., and Kathleen C. Sutcliffe, R.O.: 685 Dorchester Road, Broadwey, Weymouth.

ALAN CAMBERG (CHEMISTS), LTD. (P.C.).
—Capital £500. To carry on the business of chemists and druggists, etc.
Camberg, M.P.S., and Lesley
4 Market Street, Manchester, 1.

DAVID EMANUEL, LTD. (P.C.). — Capital £100. To carry on the business of chemists and druggists, etc. Directors: David Emanuel, M.P.S., and Shirley Emanuel. R.O.: 14 Neasden Parade, London, N.W.10.

COWENS CHEMISTS, LTD. (P.C.).—Capital £2,500. To carry on the business of consulting and general chemists. Directors: Dennis M. Cowen, M.P.S., and Heather Cowen, R.O.: 128 Roundhay Road Leeds 8.

Roundhay Road, Leeds, 8.
G. DUDLEY SMITH, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, etc. Directors: Grame Dudley Smith and Jean P. Smith, M.P.S. R.O.: 31 High Street, Ilchester, Somerset.

GRANGETHORPE PHARMACY, LTD. (P.C.).—Capital £1,000, To carry on the business of chemists, druggists, etc. Directors: Walter F, Garner and Thomas Wrigley, M.P.S. R.O.: 163A Kingsway, Manchester, 19.

THRIFTY CHEMISTS, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists and druggists, opticians, etc. Subscribers: Peter D. Johnson, C.A., 64 Molesey Drive, North Cheam, Surrey, and Brian T. Penfold.

WENDELL NICHOLAS (SWANSEA), LTD.

WENDELL NICHOLAS (SWANSEA), LTD. (P.C.).—Capital £12,000, To carry on the business of chemists, etc. Directors: Wendell Nicholas, M.P.S., and Moris L. Paster, M.P.S. R.O.: 10 White Walls, Swansea.

FOUNTAIN AEROSOLS, LTD. (P.C.).—Capital £1,200. To carry on the business of manufacturers of and dealers in aerosols, cosmetics, etc. Directors: Roger W. Suddards and Kenneth Whitaker. R.O.: 55 Sunbridge Road, Bradford, 1.

ANTHONY COLE (CHEMISTS), LTD. (P.C.).—Capital £2,000. To carry on the business of vendors of and dealers in "patent" medicines, etc. Directors, Aubrey L, Cole, M.P.S., and Anthony D, Cole, M.P.S. R.O.: 15 Surrey Street, Lowestoft, Suffolk.

COLE & KING, LTD. (P.C.).—Capital £1,500.

To carry on the business of vendors of and dealers in medicines and other proprietary articles, etc. Directors: Aubrey L. Cole, M.P.S., Frederick W. P. Cole and Lewis G. A. King. R.O.: 15 Surrey Street, Lowestoft.

DAVID RICHARDS (CHEMISTS), LTD.

DAVID RICHARDS (CHEMISTS), LTD, (P.C.).—Capital £5,000. To carry on the business of manufacturing and general chemists, etc. Directors: Gwendoline G. Richards and Alun A. Nelson, M.P.S. R.O.: Medical Hall, Harlech, Merioneth.

F. & R. AMIGO, LTD. (P.C.). — Capital £1,000. To carry on the business of manufacturing and general chemists, etc. Directors: Rudolf K. Amigo and Florence M. Amigo, R.O.: 406 Bank Chambers, 329 High Holborn, London, W.C.1.

GEORGE A HAMILTON, LTD, (P.C.).—Capital £1,000. To carry on the business of dispensing and retail chemists, herbalists, etc. Directors: Frederick N. Main, Clara E. Main and Norman S. Main, R.O.: 166 North End Road, London, W.14.

HUNTER PHARMACEUTICAL INDEX, LTD. (P.C.).—Capital £100, To establish and carry on for the collection and dissemination of information to members, etc. Subscribers: Stanley H. Lucas and Francis A. Dean. R.O.: 97A South Hill Park, London, N.W.3.

W. K. WESTLAKE, LTD. (P.C.).—Capital £7,500. To acquire the business of a retail chemist carried on by W. K. Westlake at Oxford, etc. Directors: William K. Westlake, M.P.S., and Margaret C. M. Westlake, R.O.: 255 Banbury Road, Oxford.

BUSINESS CHANGES

PETERBOROUGH CO-OPERA-TIVE SOCIETY, LTD., are shortly closing their drug store at their London Road, Peterborough, branch.

MR. J. PERIE JONES, M.P.S., has acquired the branch pharmacy of Humphrey Jones & Sons, Ltd., at 8 Bangor Street, Caernaryon.

MR. and MRS. G. L. MATCHETT, M's.P.S., have acquired the pharmacy of Mr. Howard Bransley, M.P.S., 99 Old Shoreham Road, Hove, Sussex, as from September 3.

Appointments

WILLIAM R. WARNER & CO., LTD., have appointed Mr. P. T. Evers their advertising manager.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex, have appointed Mr. R. J. Oswald, M.P.S., medical sales manager.

URWICK, ORR & PARTNERS, 14 Hobart Place, London, S.W.1, have appointed Mr. Tom Addey, M.P.S., D.B.A., their resident management consultant. Mr. Addey was previously sales manager of Nicholas Laboratories, Ltd.

RICEMANS (CANTERBURY), LTD., who are opening a store at Canterbury on September 17 have appointed Mr. A. L. Solomons manager of their drug and photographic departments. Meanwhile Mr. Solomons may be contacted through the company's temporary office at Deal (telephone: Deal 1971).

OVERSEAS VISITS

MR. R. GORDON ARCHER (managing director, Gerhardt-Penick, Ltd.), has left for a six-week visit to business associates in America and Canada.

PERSONALITIES

MR. L. S. HESKINS (director, R. W. Greeff & Co., Ltd.), retired on August 31, after forty-eight years' service with the company.

COMTE HENRI DE LA BRIERE, who recently took over the management of Guerlain, Ltd., in the United Kingdom, has been travelling extensively over the past seven years. During that time he has been creating markets for the House of Guerlain in the Far East and the tourist islands of the West Indies, and maintaining liaison with the company's agencies in New York, Mexico, South America, West Indies, North Africa, Persia, Hong Kong, Thailand, Cuba, Tokyo and Malaya. During the 1939-45 war, he fought with the Royal Air Force and won the D.F.C. French born (but in many ways more English than an Englishman), Comte de la Briere inherited his title from his father in 1958.

MR. R. J. OSWALD, M.P.S., whose new appointment with Pharmaceutical Specialities (May & Baker), Ltd., is announced above, joined the M. & B. group of companies as a medical representative in 1936. Later he went to West Africa and became the first director and general manager of May & Baker (West Africa), Ltd. In 1946 he

was appointed general manager of May & Baker's South African company. Mr. Oswald returned to England in 1958 although he retains his seat on the board of Maybaker (S.A.) (Pty), Ltd.

DR. L. G. GOODWIN, M.B., B.S., B.Pharm., B.Sc., who has been head of the Wellcome Laboratories of Tropical Medicine since 1958, has been appointed the first director of the new Nulfield Institute of Comparative Medicinc which is being built in the Zoological Gardens, London. He takes up the post on January 1, 1964; before that date he will act as consultant in planning and launching of the Institute. The Institute was founded in 1960 with the aid of a grant from the Nuffield Foundation in order that fuller use could be made for purposes of comparative medical research of the pathological and other material derived from the species of animal in the Zoological Society's collections. Although such research is carried out in eonjunction with zoological societies abroad, this has never been possible before in the United Kingdom. Dr. Goodwin was the subject of the feature "Figures in the Pharmaceutical World" in THE CHEMIST AND DRUGGIST, October 4, 1958, p. 365.

MR. G. EMRYS JONES, M.P.S., head of the Sterivac department of Allen & Hanburys, Ltd., retired recently. Mr. Emrys Jones qualified at Cardiff in 1920. He joined the staff of Allen & Hanburys, Ltd., Bethnal Green, in 1939 with special responsibilities for the introduction and distribution of a range of sterile intravenous solutions in Sterivac containers. On the outbreak of war in 1939, the production unit for Sterivac was transferred to Ware and enlarged many times. Mr. Emrys Jones took over the management of the department and, in the difficult war years, his ingenuity, coupled with his inventive genius, was responsible for maintaining supplies to deal with a demand which rapidly increased. Mr. Jones is a noted grower of orchids; as recently as March 1962, he was awarded the second prize at the show of the British Orchid Growers Association. He intends, in the immediate future, to make a detailed study of the various media used for germinating seeds. His pharmaccutical knowledge should be of great use to him during that research and, no doubt, growers will look forward to the publication of his results.

MR. J. C. SWALLOW, B.Sc., Ph.D., who is chairman of the plastics division of Imperial Chemical Industries, Ltd., has been awarded the Swin-burne medal by the Council of the Plastics Institute for his contribution to the discovery and development of polythene. Dr. Swallow was educated at London University and Leiden University, Holland. He joined Brunner Mond as a research chemist in 1924 and was in charge of polythene development work from its discovery to the building of the plant. He bccame research manager of alkali division of I.C.I. in 1941 and was appointed research director of the plastics division in 1942. Dr. Swallow became managing director of the plastics division in 1951 and he has been chairman since 1952. Dr. Swallow will deliver the Swinburne Award Address at the Royal Institution, 21

Albemarle Street, London, W.1, on November 12, at 6.30 p.m., when he will also be presented with the gold medal and the sum of money which accompanies the award. The award, which has been endowed by Bakelite, Ltd., was instituted in 1959 to commemorate Sir James Swinburne, F.R.S., who died aged 100 in the previous year.

MARRIAGES

TIERNEY—DOHERTY. — At the Church of the Sacred Heart, Carndonagh, co. Donegal, Irish Republic, on August 18, Eamon Paschal Tierney, M.P.S.I., St. John's, Lecarrow, co. Roscommon, to Brigid Doherty, Carndonagh.

DEATHS

COULSON.—Recently, Mr. Sydney Coulson, M.P.S., of 3 Graham Street, South Shields, co. Durham, aged sixtyfive. The son of a Middlesbrough chemist, Mr. Coulson scrvcd his apprenticeship with Mason & Co., Ltd., South Shields. Afterwards he joined the staff of a chemist at Howdon-on-Tyne, Northumberland, and later took over the business which he ran for thirteen years until his retirement.

HARRIS.—On August 2, Mr. Albert Sidney Harris, M.P.S., 70 Edenhall Road, Quinton, Birmingham, 32, aged fifty-four. Mr. Harris was a director of F. A. Billington (Chemists), Ltd. He was an active member of the Birmingham Chemists Golfing Association until his recent illness.

HOWSON.—On August 11, Mr. Reginald Frank Howson, M.P.S., 21 Carisbrooke Road, Edgbaston, Birmingham, 17. Mr. Howson qualified in 1913.

MILLS—On August 2, Mr. Leonard Alfred Mills, 33 Whaddon Road, Cheltenham, Glos. Mr. Mills qualified as a chemist and druggist in 1908.

MOORE.—On August 14, Mr. Wilfred Harold Moore, M.P.S., 61 Frederick Road, Aston, Birmingham, 6. Mr. Moore qualified in 1928.

NICHOLSON.—At the Royal Infirmary, Edinburgh, on August 25, after a short illness, Mr. Hugh Miller Williamson Nicholson, M.P.S., 46 Bingham Terrace, Portobello, Edinburgh, 15. Mr. Nicholson, who qualified in 1929, was for many years in the Colonial Service and became chief pharmacist in the Medical Department, Tanganyika. On retiring from that post in 1956 he was awarded the Imperial Service Order. Since returning to Scotland he had been manager of the Reid's Buildings, Newtongrange, branch of A. Miller (Chemists), Ltd.

SHANNON.—At his residence, The Pharmacy, Main Street, Neweastle, co. Down, on August 22, Mr. George Shannon, M.P.S. Mr. Shannon qualified in Dublin in 1909 and registered in Northern Ireland in 1926. He carried on business at Newcastle and a branch pharmacy at Castlewellan, co. Down, for a considerable number of years.

SMITH.—On August 20, Mr. Alexander Smith, M.P.S., St. Margaret's, 11 Heugh Street, Falkirk. Mr. Smith qualified in 1904.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Vitreous Stoneware in Place of Metal

SIR,—I have only just seen the article by Dr. C. H. Spiers entitled "Glass, Mctal, Pottery or What You Will" which appeared in your issue of June 30 (p. 715). I thought you might be interested to have some notes on the production of pestles and mortars by our firm, which was founded in 1759. A great step forward in the evolution of the mortar and pestle came just prior to 1779, through a friendship between Dr. Joseph Priestley, the famous chemist, and Josiah Wedgwood, F.R.S. Priestley, realising that the fine dust created by the constant friction of the metal pestle with the bowl of the mortar was a source of contamination, induced Wedgwood to make a mortar and pestle of an extremely hard vitrcous stoneware resistant to the strongest acids and corrosives. They were listed in the Wedgwood & Bentley catalogue of 1779 with a note: "The Mortars will be of great Use of Chymists, Experimental Philosophers and Apothecaries, as well as for Culinary Purposes; not being liable like metals or marble, to be corroded by Acids or any other Chemical Menstrum." The Wedgwood company still makes mortars and pestles (photograph of modern version enclosed).

ALAN EDEN-TREEN, London, W.1

Cut Prices

SIR,—I have always been under the impression that purchase tax was calculated on the highest wholesale price, and that the tax remained unchanged however much the wholcsale value was reduced by bulk buying. If I am correct it seems to me the wholesalers' association should draw the Customs & Excise's attention to this point.
W. L. ANDERSON,

Southampton

SIR,—Purchase tax is the one item which a manufacturer or wholesaler cannot cut unless they are willing to stand the loss themselves. No doubt the local Customs and Excise officer will

be putting this cash-and-carry wholesaler in the picture as to what the Government allows him to do with their purchase tax-or presents him with a bill for tax short-collected.

F. WIDOCKS & CO., LTD. E. J. WIDOCKS, managing director Croydon

SIR,—With reference to the letter by Sebastian, Surrey (C. & D., August 25, p. 190), I consider an error has been made in the purchase tax levied upon the wholesale prices. My company hold a purchase tax certificate and the tax on goods to the retail trade is based on the standard wholesale price. It is, therefore, illegal for a wholesaler to sell such items as Bodymist, 6s. 6d. size, at 18s. 10d. per half-doz., and render the tax on that price, for example purchase tax equal to 8s, 6d. per half-doz. If such a wholesaler holds a purchase tax certificate he is defrauding the Customs and Excise of the difference that arises if the standard wholesale price tax is charged where tax is 9s. 7d. per half-doz. If Sebastian can give proof of these facts by producing documentary evidence, I think he should pass it on to the secretary of the Proprietary Articles Trade Association who can acquaint the Customs and Excise of the facts. It would appear that the sufferer in the cut price war on this occasion is the Government, thank goodness.

SAMUEL SHELLEY, LTD. TREVOR SHELLEY, Director, Rilston

[The tax is payable on the open-market wholesale value of chargeable goods. That value is defined in Section 21 of the Finance (No. 2) Act, 1940, as the price (exclusive of tax) which in the opinion of the Commissioners the goods would fetch . . when selling by wholesale in the open market to a retail trader.—Editor.]

Council's Statement

SIR,-I have read with care and interest the Pharmaceutical Society's statement on the Health Service (C. & D., August 18, p. 160). It opens with three dauntingly long sentences—one has 105

words, a second sixty one and a third, fifty-seven; not altogether conducive to clarity of expression. One of the sentences describes the earlier resolutions and discussions on the subject which had not revealed "a clear or coherent pattern of principle or policy." Later there is a reference to "a strong desire" on the part of membership for the Society to accept full responsibility for the welfare of all its members. Against this there is the result of the National Pharmaceutical Union plebiscite which would seem to nullify the suggestion that the Society should be represented on the Central N.H.S. Committee. It does not greatly matter whether the Society is represented or not. would it greatly matter if all the N.P.U. members were replaced by Society nominees, for as the Committee is constituted the tail will continue to wag the dog. In dealing with the Ministry of Health the attitude of the company chemists' representatives will decide any issue that may present itself. Here lies the reason for the strong desire among the membership, that the Society shall come forward with a clear-cut statement of policy, and assume leadership. It is for leadership surely to produce the cohcrent pattern, not a meeting governed by "strong desires." There has been leadership in pharmacy. I was present at a special meeting in the middle 20's called to secure the introduction of new training regulations. At that time, the new proposals seemed much too far-reaching. After some two hours discussion the late Sir William Glyn-Jones stepped forward and in about ten minutes, as it now seems, and in a few incisive sentences, convinced the meeting. It was an electrifying performance and no one present was in doubt but that here was a leader. We owe it largely to Sir William that the N.H.I. dispensing was secured for pharmacy; had he doubted the possibility of what he undertook then (1911). pharmacist's position now in the N.H.S. might well be worse than it is.

J. T. MARRIOTT, Hemel Hempstead, Herts



SURVIVAL OF THE FITTEST: Stoneware mortars and pestles which, introduced to overcome (as a correspondent points out on this page) au inherent disadvantage of nictal mortars, have survived as the standard utensil since 1779. Right: A rural pharmacy for choice: Pharmacy of Mr. Norman Kettle, M.P.S., Docking, Norfolk, who recently gave his reasons for abandoning town life (C. & D., July 7, p. 14).





For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at 28 Essex Street, Strand, London, W.C.2

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"
TELEPHONE: CENTRAL 6565

The New Irish Pharmacy Act

THE Pharmacy Act, 1962 (see p. 207), is the third amendment to legislation controlling the practice of pharmacy in the Republic of Ireland since the Pharmacy Act (Ireland), 1875, established the Pharmaceutical Society of Ireland and provided for the registration of qualified non-medical persons entitled to compound and dispense medical prescriptions and poisons.

Before 1875, licentiates of the Apothecaries' Hall of Dublin, by virtue of a Royal Charter of 1791, had enjoyed the exclusive privilege of compounding and dispensing medical prescriptions and had been sufficiently powerful to prevent the early English Pharmacy Acts being extended to "the sister isle." Amendment Act of 1890 was concerned chiefly with the establishment of a new class of licensed vendors of scheduled poisons (registered druggists). The second Amendment Act of 1951 repealed the provisions of the 1890 Act to secure the eventual extinction of registered druggists; and now the 1962 Amendment Act takes cognisance of the social and pharmaceutical changes that have taken place in the present century by modifying or extending the earlier legislation and by introducing elements new to pharmacy in the Republic.

Section 2 of the new Act, which specifies the authorised persons who may keep open shop for the compounding and dispensing of prescriptions and the sale of poisons, will not be brought into force until regulations made under the Poisons Act, 1961, are introduced by the Minister for Health. Whilst the Pharmacy Acts and the Poisons Act are complementary, the tendency is to separate pharmacy administration and poisons administration into two separate channels.

The 1962 Act includes a provision for the acceptance of foreign qualifications which, in turn, will permit the Council to negotiate reciprocal agreements with other pharmaceutical examining bodies. Provision is also made for the institution of a qualification higher than the basic qualification of pharmaceutical chemist and for the granting of honorary fellowships. The 1875 Act established the right of the pharmacist to compete with the apothecary, and the concept of the pharmacist as a specialist in his field is brought a stage further by Section 8 of the new Act which provides for the cessation of registration of apothecaries as pharmaceutical chemists. Possibly the innovation which will cause most discussion in Irish pharmaceutical circles is the provision for charging a retention fee. Pharmacists in Great Bri-

tain and Northern Ireland are accustomed to the idea but hitherto a pharmacist in the Republic has not been obliged to pay an annual fee to retain his name on the register of pharmaceutical chemists. Inevitably it would appear that progress has its price.

The Council of the Pharmaceutical Society of Ireland is to be commended on its courage in boldly tackling the complex pharmaceutical problems in the Republic.

Overseas Trade in July

THE value of drugs, medicines and medicinal preparations exported during July fell to £4,079,411 from £4,350,926 in June.

From the statistics recently published by the Board of Trade it would appear that the fall was largely due to smaller shipments made to Australia which were valued at £235,138 against £468,459 in the previous month. Exports to Nigeria, however, staged a recovery at £232,985 against £156,193 in June. The Irish Republic was the third largest market for U.K. medicinal preparations at £211,897. Exports to Western Germany showed a considerable rise at £160,450 (against £84,511)

EXPORTS	VALUE
Drugs, medicines, medicinal preparations	£
(tatal)	4,079,411
Viltomina	243,084
Daniellin in halle	120,265
D. 1-111 1.1-11	62,733
D-u-1-1111 4-1-1-4- 1 4	60,646
A ATTENDATION ATTENDED ATTENDED	614,177
A 11 1 1 1	
	108,239
Aspirin	89,507
Anæsthetics (excluding ether, chloroform	65.105
and ethyl chloride)	65,187
Antihistamines	71,315
Antipaludics	96,292
Barbiturates	43,653
Ointments and liniments	108,623
Insulin	37,364
Hormones	183,920
Sulphonamides, prepared	76,195
Proprietary medicines	1,149,315
Unclassified medicines	904,586
Glycerin	32,258
Acetone	41,469
Citric acid	78,017
Essential Oils, natural, excluding turpentine	122,742
Sulphonamides, unprepared	96,790
Perfumery and toilet preparations:	
Lipstick, face powder, etc	287,640
Dentifrices	148,195
Toilet soaps	341,827
Synthetic detergents	756,839

I.	VALUE				
			 		£
Vitamins			 		57,956
Antibiotics .			 		47,487
Alkaloids			 • • •		53,608
Proprietary medici	ines		 		79,380
Unclassified medic	cines		 		237,941
Borax			 		92,778
Iodine			 		60,364
Menthol			 		37,167
Essential Oils:				-	
Bergamot .			 		12,008
Citronella .			 		22,666
Clove			 		18,319
Geranium .			 		20,986
Lavender .			 		2,453
Lemon			 		33,525
Orange			 		12,452
Peppermint .			 		69,8 97
Unclassified .		•••	 		206,985

in June, and £59,250 in July 1961). Compared with the same month in 1961, July exports to some of the other Common Market countries notably Belgium and France, were disappointingly small but shipments to members of the European Free Trade Association continued to rise.

Displaced Traders and Their Interests

THE need for local authorities to respect the interests of displaced traders is stressed by both the Minister of Housing and Local Government and the Minister of Transport in a bulletin on the renewal of town centres

(H.M. Stationery Office, price 5s.).

The bulletin describes ways in which local authorities and private-enterprise developers can work together to tackle problems of renewing town centres so as to meet the needs of the second half of the twentieth century. It points out that both the national and the local authority have a statutory duty under section 19(6) of the 1944 Town Planning Act to ensure, so far as is practicable, that reasonable alternative accommodation is offered to displaced traders on terms which have due regard to the price at which their land was acquired. The bulletin adds that no redevelopment can be accounted a success unless every effort is made to provide satisfactorily for those established local interests, and to ease the disturbance inherent in such redevelopment schemes. In a foreword signed by Dr. Charles Hill, who was Minister of Housing and Local Government when the book was printed and by Mr. Ernest Marples (Minister of Transport) it is stated that obsolescence, decay and congestion in town centres threatens not only the future prosperity of the town centre itself, but the whole community of which it is the focal point. Part I of the bulletin deals with the many problems of town centres, the objectives to be aimed at in planning their renewal, and the methods by which redevelopment shall be carried out. Renewal should, it states, spring from the determination of local people and the local authority to improve their town. Town planning has often in the past been ruthlessly applied without due respect being given to those displaced. Such an affirmation by the Ministry of Housing and Local Government of the need to safeguard the interests of displaced persons is therefore timely and welcome.

Onward from Galen A CURRENT CAUSERIE

UNDER the title "Pharmaceuticals: An Industry on the Defensive," the Financial Times' commercial editor gave a well-balanced picture of the history of the drug price controversy between the Ministry of Health and the pharmaceutical manufacturers. In a reference to the Public Accounts Committee's implication that too much was being spent on sales promotion (C. & D., August 18, p. 161), the article says: "Most companies claim their competitors are more 'to blame' than they for sending round uninformative literature and most seem to agree that from the N.H.S. point of view some of the expense is unnecessary." But it is difficult to see what can be done about it-"little faith seems to be placed by doctors in the Prescribers Journal." If the community decides that drugs are most efficiently developed under private enterprise, it may have to pay the price of allowing the industry to use the accepted methods of commercial competition, even though these are sometimes expensive. And "there may well be other aspects of the Health Service that lend themselves more easily to economies than the price of drugs."

NEW FILMS

Prevention of Staphylococcal Infection in the New-born Baby

Camera Talks, Ltd., 23 Denmark Place, London, W.C.2, in collaboration with United Bristol Hospitals and Bayer Products, division of Winthrop Group, Ltd. Filmstrip. 42s, 6d., including teaching notes.

THIS filmstrip is the second of a series titled "cross infection." Its forty-seven colour frames, supported by the lecture notes, illustrate possible sites and potential dangers of staphylococcal infection, and how it may best be avoided. Routine care of the infant is described, in both the hospital labour ward and the nursery.

RECENT RESEARCH

LESS PAINFUL HISTAMINE INJECTION

According to recent communication to the *British Medical Journal* (August 25, p. 551), pain from histamine injections can be lessened by reducing the volume given and by adding 20 mgm. per mil benzyl alcohol (which has a local anæsthetic action). The effectiveness of benzyl alcohol for that purpose was investigated clinically in twenty patients undergoing an augmented histamine test of gastric secretion. In each test the histamine was divided; half being injected with benzyl alcohol subcutaneously into one arm and without benzyl alcohol into the other. In the first ten patients histamine acid phosphate 1 mgm. per mil was used. All patients found histamine alone painful, five found the injection with benzyl alcohol painless and all preferred the augmented injection. In the other ten patients, the volume injected was reduced by using histamine 4 mgm. per mil, as a result of which five patients found the injection of histamine alone painless, three preferred the injection with benzyl alcohol, and seven expressed no preference.

MEDICAL ABSTRACTS

ORAL BETAMETHASONE IN DERMATOLOGY BETAMETHASONE phosphate* administered as an oral solution has been used by Church at Sheffield Royal Infirmary to treat various skin diseases in sixty-two patients (*Brit. med. J.*, 1962. II. 453). 1 mgm. was found approximately equivalent in effect to 1·25 mgm. of betamethasone alcohol, 12·5 mgm. of prednisolone and 15-20 mgm. of entericcoated prednisolone. Dyspepsia was as well controlled with the solution as with the enteric-coated tablets.
*Betnesol (Glaxo Laboratories, Ltd.).

NEW TREATMENTS FOR HYPERTENSION

EVIDENCE of the hypotensive activities of methyldopa and diazoxide is contained in two reports recently published (Brit. med. J., 1962. II. 156, 159). At the United Cardiff Hospitals, Daley and Evans treated twenty hypertensive patients with 1–4 gm. of methyldopa* daily for periods of 4 weeks to 6 months. The drug was effective in eighteen cases and no toxic reactions were noted; drowsiness (mild and transient) was the only common side-effect. All patients felt better during treatment. From Seton Hall College of Medicine and Dentistry, New Jersey, U.S.A., Hutcheon and Barthalmus report on the hypotensive and antidiuretic effects of diazoxide† (chemically, 3-methyl-7-chloro-1,2,4-benzothiadiazine-1,1-dioxide), a congener of chlorothiazide lacking any free sulphamyl group. Previous studies have indicated that the blood-pressure of patients treated with chlorothiazide may fall if sodium excretion is depressed. Diazoxide reduces both urine volume and renal sodium excretion. Ten hospital in-patients were given 150 mgm. of the drug twice a day and, in some cases, concurrent dosage with trichlormethiazide (a chlorothiazide type diuretic). In spite of its antidiuretic effect, diazoxide caused a significant drop in systolic and diastolic blood-pressure in those patients to whom it was given alone; side-effects included gain in weight and some ankle cedema where dietary sodium was not restricted. Trichlormethiazide prevented fluid retention without interfering with the hypotensive action of diazoxide.

*Aldomet (Merck, Sharp & Dohme, Ltd.). †Supplied by Schering Corp., New Jersey, U.S.A.

LONDON'S UNIVERSITY DISPENSARY

Torchbearer for University College Hospital, London

T. D. WHITTET, B.Sc., Ph.D., F.P.S., F.R.I.C., D.B.A.

(Group Chief Pharmacist and lecturer in pharmacy, University College Hospital and Medical School)

MEDICAL school was one of the original faculties of London University, founded in 1826. On March 6, 1828, the Council of the University entered into an "advantageous temporary arrangement" with the Middlesex Hospital. In the meantime a Hospital Committee was set up (its name was later changed to the Dispensary Committee) to obtain a site in the neighbourhood of the University for building a hospital that would be under the immediate control of the Council.

The first mention of opening a dispensary came in the minutes of a Council meeting of May 22, 1828, in which it is stated "The Warden was authorised to obtain a house in the immediate neighbourhood of the University for a Dispensary." The Warden reported on May 29 that he had seen a house in George Strect, New Road, which he considered well adapted for a dispensary, and that it was offered for £90 a year for the remainder of a term commencing in 1824 for seven, fourteen or twenty-one years' determination at the tenants' option, the taxes amounting to £36 6s., with fixtures that would probably cost £70. He was authorised to engage the house (No. 4 George Street appears in the minutes as a marginal note). There was. however, no hurry to arrive at a final decision for, at a meeting on June 5, the Warden reported that he had not yet taken the house for the dispensary, and he was instructed to defer doing so until further information was obtained as to the plan of eonduct of such an establishment.

On June 26 the Council resolved "that the proposed arrangements for the establishment of a Dispensary be made, but that a house be not taken until further consideration." The final decision to proceed with the plan was made at a meeting on July 3, 1828. On July 18 "a letter was read from Mr. John Hogg, who had offered himself some time ago for the situation of Resident Apothecary at the University Dispensary, transmitting strong testimonials signed by all the medical professors, and it was resolved to recommend to the Dispensary Committee to appoint him to the office he seeks, if upon further inquiry they eonsidered him in every respect a proper person for the situation." The further inquiries must have proved favourable to Hogg, for he was appointed to the post.

Management Regulations

On July 24 "there was laid upon the table from the Dispensary Committee a set of regulations for the management of the University Dispensary of which, having been taken into eonsideration, the following were adopted:—

1st. The object of this Institution is to provide medical and surgical assistance, gratis, to the sick poor, who apply in person, recommended by Proprietors of this University, Subscribers to the Dispensary and by the Medical officers of the charity and, if necessary visiting them in their own houses and to attend to poor lying-in women.

2nd. The Funds of the Institution shall be provided by Annual Subscriptions and Donations and by a Fee to be paid by each Pupil attending the Dispensary and if there be a deficiency the Council shall make it up.

5th. The patients whose cases require it shall be visited by the Medical officers in their own habitations within a circle of a mile radius around the University.

6th. The Government of the Dispensary shall be vested in the Court of the University and in eight Proprietors of the University, which eight Proprietors with the physician, physician-accoucheur and the surgeons shall constitute a Committee for the ordinary management of the affairs of the Dispensary. The members of the Council and the Warden of the University shall be members of the Committee.



No. 4 George Street (No. 171 Gower Street).

10th. The Medical Board shall consist of two physicians, one physician-accoucheur who, being professors in the University shall be appointed by the Council and Committee.

11th. There shall be a Resident Apothecary who shall be chosen by the Council and Committee.

13th. The Apothecary shall have a salary and shall reside in the Dispensary and be there at hours to be fixed by the Committee. He shall not engage in private practice. He shall act as secretary to the Committee and fulfil their orders and those of the Medical Board. He shall keep a register of the patients and of their dismissals and of the results of their treatment, and be responsible for the property of the Dispensary."

The Dispensary opened on September 28, 1828, two days before the medical school, and two weeks before the rest of the University. Thus the pharmaceutieal department can claim to be the oldest part of the Hospital and of London University. It is noteworthy that most of the early Council meetings were held in the Crown and Anchor Tavern, scene of the inaugural meetings of the General Pharmaceutic Association (1794), the Associated Apothecaries and Surgeon-apothecaries (1812) and Pharmaceutical Society (1841).

Despite the fact that it was not until 1937 that George Street became an extension of Gower Street on the North side of Euston Road, the identity of the building appears to have been lost sight of until recently. The late Mr. W. J. Bishop, during researches in connection with an official history of the Hospital and Medical School, established that No. 4 George Street is now 171 Gower Street. By means of rate books and other local records Bishop (1961) traced the history and successive tenancies of the house and showed that No. 171 is one of four houses built about 1800. One of the four original houses has disappeared but the

remaining three, of which No. 171 is the middle one, are solid Georgian houses that have retained their original character though now somewhat dilapidated. The only trace of what might have been the original equipment is a sink in the basement, which may well have been used by the resident apothecary.

The opening of the Dispensary was announced in a pamphlet entitled Medical Schools of the University of London (Aug. 20, 1828, p. 15).

Dispensary

"The DISPENSARY OF THE UNIVERSITY has been established in the immediate neighbourhood of the Institution, under the auspices of the Council, to render more complete the MEDICAL SCHOOL, until an HOSPITAL can be built exclusively attached to the University. It has been placed under the direction of the following Professors: Dr. CONOLLY, Dr. T. THOMSON, Dr. D. DAVIS, and GRANVILLE SHARP PATTISON, Esq., with Mr. JOHN HOGG as resident Apothecary.

The students admitted to this establishment will have the advantage of Clinical instructions on a more extended scale than is usual at similar institutions. A daily explanation of the principal cases will be given: and each pupil, when adequate to the charge, will be intrusted with the management of cases, under the superintendance of the physicians and the surgeon. The pupils, from the first will be instructed in the mode of examining patients, who apply for admission, and in drawing up the history of their cases. They will also receive Pharmaceutical instructions, as far as relates to the compounding of medicines, from the resident apothecary.

In the Midwifery Department they will derive peculiar advantages under the immediate guidance of the Professor of Midwifery.

Mr. Pattison will take every opportunity which may occur, in the Surgical Practice of the Dispensary, of performing in the presence of the students the different surgical operations, And as the after treatment will be particularly attended to, the Pupils will be able to witness the effects and advantages which the judicious employment of this exerts in securing the success of an operation.

The arrangements for the Medical School have been so framed as to enable the Pupils to comply with the regulations which must be observed by Candidates for the Diplomas of the Royal College of Surgeons, or the Company of Apothecaries.

The College of Surgeons requires that Candidates shall produce Certificates of attendance on the following Courses:

Three Courses of Anatomy, One Course of Surgery,

Two Courses of Dissections and Demonstrations,

One Course of Chemistry, Two Courses of Midwifery,

and One Year's attendance on the Surgical Practice of a Hospital."

Details of Courses

A later advertisement included the following:

" MATERIA MEDICA AND PHARMACY

A. T. Thomson, M.D., F.L.S.

Every morning (except Saturday) from Eight to Nine.

FIRST COURSE (about 80 hours of) £3. SECOND COURSE (Instruction each) £3.

This subject will be treated in two distinct Courses of Lectures: the first confined exclusively to:

MATERIA MEDICA, or an Account of the Characters and Properties of those Natural Productions which are employed as Medicinal Agents; the second to:

PHARMACY, or that branch of Chemical Science which relates to the Combination and Mixture of the above-mentioned Substances for the purpose of Medicine.

An ample Museum of Materia Medica is in preparation, to be

arranged for the purposes of instruction; and as this will be open to the Pupils under proper Regulations, it is hoped that it will afford great facilities for the acquisition of a complete knowledge of this branch of Medical Science.'

Dr. A. T. Thomson was at first entitled Professor of Materia Medica and Pharmacy (changed a few years later to Materia Medica and Therapeutics). His original appointment was made on July 6, 1827, and he later became Professor of Medical Jurisprudence. Thomson compiled in 1828 a pharmacopæia for use in the Dispensary. He was a good teacher, a capable research worker and wrote several successful books on pharmacy, botany and materia medica. His interest in pharmacy is shown by the fact that he had played a leading part in obtaining the Apothecaries' Act of 1815 and was an honorary founder member of the Pharmaceutical Society and a lecturer in botany to its School of Pharmacy.

Hale Bellot (1929) quotes Godlee as saying "It [the Dispensary] must have contained beds, as sixty-nine patients died there between 1828 and 1832, moreover J. Hogg, the apothecary, conducted post-mortem examinations in the presence of pupils. Regular lectures were delivered. Fees were charged for the instruction given. The average number of students was thirty-four." Bishop, however, told the present writer that he considered it unlikely that there were beds. He thought the patients who died there were probably injured or very ill patients who were brought in and died on the premises. Bodies for post-mortems were presumably brought from local mortuaries. According to Bishop the Dispensary, in addition to providing regular instruction in case-taking and the examination of patients, had a flourishing district midwifery service.

Hale Bellot quotes from the University magazine of 1829 that the Dispensary made a prosperous start, but the annual reports show that, after 1830, the number of patients treated began to decline, and the minutes record complaints of irregularity in attendance of the surgeons, (Council minutes July 8, 1830). On March 6, 1830, the Council decided that a record of attendances of the medical officers should be kept. On July 20, 1830, a committee was set up to inquire on all matters connected with the Dispensary, and on June 11, 1831, there was a further complaint about the poor attendance of surgeons. Despite those shortcomings Hale Bellot considers that the merits of the school were sufficient to secure a rapid rise in reputation, and the number of students increased from 183 in 1828-29 to 252 in 1831-32 and 390 in 1834-35.

Although the Dispensary was now established, the Council did not abandon its plans for establishing a hospital for, on December 20, 1828, they had discussions with Mr. Pattison, Dr. Davis, Dr. Thomson, Dr. Watson and Dr. Turner "on various matters connected with the establishment of an hospital" and on December 23 they resolved "that it is desirable that a hospital under the immediate control of the Council should be established on the site of the University or in its immediate vicinity provided that sufficient funds can be obtained for its construction and support." A special Hospital Committee was appointed. On January 13, 1829, the Dispensary Committee offered to help to raise funds, and on February 7 the medical professors urged the Council to come to a decision about building a hospital.

In April 1829 a Mr. Winter offered a piece of ground situated at the North-west end of Gower Street North, at the site of the proposed hospital. The offer was referred to the Hospital Committee. At a meeting on March 30, 1833, an estimate of Mr. Singer for building the hospital was presented to the Council. It was for £2,000 and, as more than £3,000 had already been subscribed, the Council authorised the building of the hospital. The Dispensary remained open until replaced by the Hospital on November 1, 1834.

Resident Apothecary

The post of resident apothecary was held by John Hogg throughout the existence of the Dispensary. He was described as house surgeon in the Times (1961) but a study of the original minutes has shown that that was incorrect. He applied for an appointment as house surgeon to the proposed hospital as early as March 10, 1832, but, when appointed to the hospital in 1834, his title was hospital assistant, although he seems to have called himself house surgeon.

In the first half of the nineteenth century the apothecaries were in a transition state between pharmacy and medicine. The Apothecaries' Act of 1815 had given them full recognition as general practitioners of medicine, but they still undertook many pharmaceutical duties, especially in the hospitals. Although that is not obvious from the rules for the resident apothecary of the Dispensary quoted above, the pamphlet about the Dispensary mentions the apothecary as giving pharmaceutical instructions on compounding.

John Hogg

John Hogg was born in Cornwall in 1803, and took his M.D. and M.R.C.S. at Edinburgh in 1827 and his L.S.A. whilst at the Dispensary in 1830. A minute of March 13, 1830, records a payment of £50 to him as a half-year's salary. He later became a surgeon to the hospital and then went into general practice in London, having his surgery in Gower Street. Hogg published a series of chemical and medical tables whilst at the Dispensary, and later monographs on the health and habits of the inhabitants of London (1847) and the prevention of consumption (1860). In them he made many references to his time at the Dispensary and Hospital. Hogg died in 1880 at the age of seventyseven. He appears to have been an extremely able man.

The University Dispensary was of especial importance for, as well as being "the parent or grandparent of the present hospital" (Godlee, quoted by Bishop, 1961), in the words of Sir Archibald Grey, "the opening of the Dispensary in 1828 was the first serious step taken in this country to co-ordinate the teaching of medical science and to link up theoretical with clinical instruction, and it marked the introduction of a new and organised system of medical education" (Bishop, 1961). Unfortunately the building and the adjoining property are scheduled for demolition in the near future to make way for the Euston Road/Tottenham Court Road underpass.

REFERENCES

BISHOP, W. J. U.C.H. Magazine, 1961, 45. 7. HALE BELLOT, H. "University College, London, 1826-1926," pp. 150-51. The Times, "Hospital Finds its Roots," January 13, 1961.

BOOKS NEW

The Atoms Within Us

ERNEST BOREK. Oxford University Press (Columbia University Press, New York, U.S.A.), Amen House, Warwick Square, London, E.C.4. Pp. xii + 272. 30s.

In entertaining style Dr. Borek relates the various events in the development of biochemistry as a major discipline of scientific study. The facts presented are prolific and ingeniously woven into a wealth of often humorously written background material. Medicine, politics, war, radioactivity: all are discussed from the same viewpoint—their part in moulding the shape of research. In this book Dr. Borek oversteps the bounds of biochemistry in almost every conceivable direction, but he attains a rare perspective by correlating successfully the body as it functions with life as it

Piante Medicinali — Chimica, Farmacologia e Terapia. (Vol. 1)

R. BENIGNI, C. CAPRA, and P. E. CATTORINI. Inverni & Della Beffa, S.p.A., via Ripamonti 99, Milan, Italy. Distributors: Messaggerie Italiane, via Lomazzo 52, Milan, $9\frac{1}{4} \times 6\frac{1}{2}$ in. Pp. vii + 730. Lire 8,000.

This is the first volume of a work, published in Italian, which attempts to collate the widespread literature on the chemistry, pharmacological properties and therapeutic uses of medical plants, with especial reference to those that have received little or no mention in the usual texts. Hand-somely produced, the book deals (in common-name alphabetical order from A to H) with 144 botanicals. The second volume (for the rest of the alphabet) is promised later in the year. Structural formulae are copious, there is a wealth of modern pharmacological experimental detail, and a comprehensive list of bibliographical references is appended to each entry. An index and several colour plates complete the work.

Basis for Marketing Decision Through Controlled Motivation Research

LOUIS CHESKIN. Business Publications, Ltd., in association with B. T. Batsford, Ltd., 109 Waterloo Road. London, S.E.1. $8\frac{3}{4}$ x $5\frac{3}{4}$ in. Pp. 282. 35s.

THE author is director of the Colour Research Institute in the United States and is president of a marketing research organisation in that country, where this volume was published in 1961. With so much emphasis being placed today on marketing, particularly for export, and with the possibility of Britain entering the European Economic Community, it may be expected that there will be no dearth in such volumes particularly from the United States, where the study has been more seriously applied than in Britain. What is motivation research? The author sums up the answer as "the type of research that seeks to learn what motivates individuals in making choices. Motivation researchers employ techniques designed to reach the unconscious or subconscious mind because preference generally is determined by factors of which the individual is not aware.

Influence of Animal Strain Selection and Conditioning on **Biological Experiments and Assays**

Pharmaceutical Press, 17 Bloomsbury Square, London,

W.C.1. Pp. 32. 5s.

THE booklet comprises a report, reprinted from the Journal of Pharmacy and Pharmacology, of a symposium organised by the department of pharmaceutical sciences of the Pharmaceutical Society in January. It contains an introduction by Dr. W. Lane-Petter (a member of Council and the chairman of the symposium), followed by three technical papers, and ends with a general discussion. Dr. Lane-Petter comments that strain variation in experimental animals should be borne in mind as of practical rather than simply theoretical importance to an experiment, "particularly when wide discrepancies of results appear between work performed in different laboratories.'

Condensed Chemical Dictionary

A. and E. Rose (editors), Chapman & Hall, Ltd., 37 Essex Street, Strand, London, W.C.2. $9\frac{3}{4}$ x $6\frac{3}{4}$ in. Pp. xix + 1,257. Sixth edition. 140s.

THE latest edition of this useful work of reference appears in a larger format in order to incorporate its many thousands of new or revised entries. The references (now thumb indexed) give names, definitions, properties, derivations, uses, grades, sources, etc., of a vast number of chemicals and materials, together with synonyms, trade names, trade marks, and, where indicated, safety precautions and shipping instruction. Trade-marked items are ascribed to their manufacturers. Information on new derivations and uses has been considerably expanded, and new fibres, polymers, organometallic compounds and pesticides are well covered. There is a useful synopsis of U.S. Interstate Commerce Commission regulations.

Drugs of Choice 1962-63

W. MODELL (Editor). Henry Kimpton (C. V. Mosby Co., St. Louis, U.S.A.), 134 Great Portland Street, London, W.1. Pp. 941, 108s. 6d.

This is the third edition of a biennial textbook that covers far more ground than its name implies. Aided by fifty-seven contributors from United States academic institutions, Professor Modell gives an authoritative and up-to-date review of today's drugs, how they should be administered, and for which disorders they are best suited. Because the book is directed primarily at the physician, its approach is a practical one. There is, however, as much detail of pharmacology as will be found in many textbooks devoted entirely to that subject. Each chapter concludes with a list of selected references. A drug index occupies 115 pages, and there is a handy key to the forty-six tables used to summarise subjects such as "uses of narrow-spectrum antibiotics" and "suggested constituents of a kit for treatment of poisoning."

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 230.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

ABSTEM tablets

Manufacturer: Lederle Laboratories, division of Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2.

Description: Tablets each containing 50 mgm. of citrated calcium carbimide.

INDICATIONS: As adjunctive therapy for the treatment of alcoholism.

Contraindications: Should be used with caution in patients with myocardial or coronary artery disease.

Dosage: One or two tablets daily.

SIDE-EFFECTS: Usually mild—include drowsiness, giddiness, rash, slight depression. In certain cases thyroid function may be suppressed.

How Supplied: In bottle of 100.

SUPPLY RESTRICTIONS: Recommended on prescription only.

FIRST ISSUED: July 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

DOLOXENE "compound-65" Pulvules

Manufacturer: Eli Lilly & Co., Ltd., Basingstoke, Hants.

DESCRIPTIONS: Red/grey capsules containing 65 mgm. of dextropropoxyphene hydrochloride, 162 mgm. (gr. 2½) of phenacetin, 227 mgm. (gr. 3½) of aspirin and 32.4 mgm. (gr. ½) of caffeine.

Indications: For relief of pain in rheumatism, arthritis, malignancy; dental pain, dysmenorrhæa, post-operative pain, trauma, muscular pain.

Dosage: Adults, One capsule three or four times a day.

How Supplied: In bottles of twenty, 100 and 500.

SUPPLY RESTRICTIONS: P.I., S.1.

FIRST ISSUED: July 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

ISO-BROVON tablets

Manufacturer: Moore Medicinal Products, Ltd., Waverley House, Waverley Place, Aberdeen.

Description: Dark brown sugar coated chocolate flavoured tablets containing 15 mgm. of isoprenaline sulphate (in the outer layer), 36 mgm. of *l*-n-methylephedrine hydrochloride and 130 mgm. of theophylline (in the core).

INDICATIONS: Asthma, chronic bronchitis, emphysema.

Contraindications: Acute coronary disease. Do not give concurrently with adrenalin.

Dosage: One to three tablets daily, placed under the tongue for two minutes before swallowing.

How Supplied: In bottle of twenty-five.

SUPPLY RESTRICTIONS: P.I. FIRST ISSUED: July 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

NEPHRIL tablets

Manufacturer: Pfizer, Ltd., Sandwich, Kent.

Description: Pale green sugar-coated tablets containing 1 mgm. of polythiazide and an enteric-coated core of 600 mgm. of potassium chloride (equivalent to 315 mgm. potassium).

INDICATIONS: Hypertension. Oedematous conditions: congestive heart failure, renal ædema, hepatic cirrhosis, drug induced ædema, toxæmia of pregnancy. Fluid retention of pregnancy, premenstrual tension. Obesity (adjunctive treatment).

Dosage: Initially, one or two tablets daily, adjusted according to response.

How Supplied: In bottle of 100.

FIRST ISSUED: July 1962.

ADCORTYL-A cream

Manufacturer: E. R. Squibb & Sons, Ltd., Edwards Lane, Speke, Liverpool, 24.

DESCRIPTION: Cream containing 0.1 per cent. of triamcinolone acetonide in a water-miscible vanishing cream base.

INDICATIONS: Corticosteroid-responsive dermatoses.

METHOD OF USE: Apply sparingly two or three times a day.

How Supplied: In tubes of 5 and 15 gm.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: July 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

ADCORTYL-A with Graneodin cream

Manufacturer: E. R. Squibb & Sons, Ltd., Edwards Lane, Speke, Liverpool, 24.

DESCRIPTION: Cream containing 0.1 per cent, of triamcinolone acetonide with 0.25 per cent, of neomycin and 0.025 per cent, of gramicidin in a water-miscible vanishing cream base.

Indications: Corticosteroid-responsive dermatoses complicated or threatened by bacterial infection.

METHOD OF USE: Apply sparingly two or three times daily.

How Supplied: In tubes of 5 and 15 gm.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

First Issued: July 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

CARDIVIX tablets and suppositories

Manufacturer: Genatosan, Ltd., 12 Derby Road, Loughborough, Leics.

Description: White scored *tablets* (with company's housemark on opposite face) containing 100 mgm. of benziodarone. *Suppositories* containing 200 mgm. Coronary vasodilator.

Indications: Prophylaxis of angina pectoris; sequelæ of myocardial infarction.

Dosage: Six tablets daily for 3-4 days, reducing thereafter to three or four daily; to be taken with or immediately after meals in doses of one or two tablets at a time. Alternatively, three suppositories inserted daily, reducing the dose as improvement occurs and finally discontinuing in favour of three or four tablets daily. Combined dosage: one suppository morning and evening plus two tablets once or twice daily, eventually replacing each suppository by two tablets and reducing dose to maintenance level of three or four tablets.

Side-effects: Gastric disturbances or diarrhæa in some cases. Precautions: Care with patients of known iodine sensitivity or if on anticoagulants.

How Supplied: *Tablets* in containers of thirty and 250. Suppositories in pack of ten.

First Issued: April 1962, to hospitals only.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

TRICLORYL tablets

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex. Description: White scored tablets containing 0.5 gm. of triclofos. Sedative and hypnotic.

INDICATIONS: For promotion of sleep or daytime sedation.

Dosage: Hypnotic: Adults, two tablets 30 minutes before retiring; the dose may be doubled if necessary. Children, a quarter to two tablets according to age. Sedative: Adults, one tablet three or four times a day.

How Supplied: In bottles of twenty, 100 and 500.

FIRST ISSUED: July 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

ATASORB-N suspension

Manufacturer: Eli Lilly & Co., Ltd., Basingstoke, Hants.

Description: Pleasantly flavoured pink liquid containing 3 gm. of activated attapulgite, 0.9 gm. of colloidal activated attapulgite, 321 mgm. of neomycin sulphate and 300 mgm. of pectin per 30 mils.

INDICATIONS: Bacterial diarrheas, non-specific ulcerative colitis and other ulcerative lesions of the colon in which secondary infection is present.

CONTRAINDICATIONS: Intestinal obstruction or chronic renal disease.

Dosage: Adults, 2 tablespoonfuls (30 mils); children (2–12 yrs.), ½-1 tablespoonful. Infants, 1–2 teaspoonfuls. To be taken three or four times a day.

Notes: Expiry date, 2 years from manufacture. How Supplied: In bottles of 4 and 16 fl. oz.

Supply Restrictions: Therapcutic Substances Act.

FIRST ISSUED: April 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

ESKORNADE syrup

MANUFACTURER: Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts.

DESCRIPTION: Fruit-flavoured syrup containing 15 mgm. of phenylpropanolamine hydrochloride, 1.5 mgm. of diphenylpyraline hydrochloride (Histryl) and 0.75 mgm. of isopropamide (as iodide) per teaspoonful (5 mils).

INDICATIONS: For the relief of nasal congestion and hypersecretion associated with the common cold, nasal allergy, acute and chronic rhinitis, influenza and sinusitis.

CONTRAINDICATIONS: Glaucoma and prostatic hypertrophy. Use with caution in severe hypertension.

Dosage: Adults, and children over 12, 2 teaspoonfuls three times a day; children under 12, \(\frac{1}{4}\)-1 teaspoonful three times a day.

SIDE-EFFECTS: Slight and transient; they include dry mouth, drowsiness, insomnia and blurred vision.

How Supplied: In bottle of 4 fl. oz.

SUPPLY RESTRICTIONS: P.I, S.7. Recommended on prescription only.

First Issued: July 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

KELFERON tablets

Manufacturer: M.C.P. Pure Drugs, Ltd., Station Wharf Works, Alperton, Wembley, Middlesex.

DESCRIPTION: Pale pink sugar-coated tablets containing 226 mgm. of ferrous glycine sulphate (equivalent to 40 mgm. of ferrous iron).

INDICATIONS: For prophylaxis and treatment of iron deficiency anæmia, including routine medication in pregnancy.

Dosage: Usually one tablet three times a day. Two tablets may be given initially in severe cases of iron-deficiency anæmia.

How Supplied: In packs of 100 and 1,000.

FIRST ISSUED: May 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

RIDDOVYDRIN elixir (children's)

Manufacturer: Riddell Products, Ltd., 10 Dunbridge Street, London, E.2.

Description: Pædiatric elixir containing 0.2 mils of ext. drosera liq., 20 mgm. of guiacyl ether and 10 mgm. of ascorbic acid per 3 mils, in a vehicle of glycerin, syrup of black-currant and syrup of tolu.

INDICATIONS: Coughs and bronchitis in children and infants up to 12 years of age.

Dosage: 1 teaspoonful every three hours if required.

How Supplied: In bottle of 3 fl. oz.

FIRST ISSUED: April 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

CILOPRINE ear drops

Manufacturer: McNeil Laboratorics, division of Ortho Pharmaceutical, Ltd., Saunderton, High Wycombe, Bucks.

Description: Colourless to pale amber slightly viscous liquid containing 0.83 per cent, of sodium 4-amino-4'-carboxymethylaminodiphenyl sulphone and 0.41 per cent, of NN'-di (hyroxymethyl) urea in a glycerin solution.

INDICATIONS: Chronic or acute otitis media or otitis externa.

METHOD OF USE: Five drops installed into the affected ear every 3-4 hours.

How Supplied: In bottle of 5 mils with ear pipette.

FIRST ISSUED: March 1962. Replaces previous card on this product.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

COLIBAR cream

Manufacturer: Dalmas, Ltd., 215 Charles Street, Leicester.

DESCRIPTION: Pale pink cream containing 2 per cent, of hydrated aluminium chloride and 0.2 per cent, of hexachlorophane in an emulsified base.

Indications: Particularly suitable for delicate areas around stomas, e.g. soreness arising as a result of ileostomics and colostomies.

METHOD OF USE: Apply sparingly or massage gently into the surface, twice a day.

How Supplied: In tube of 2 oz.

First 1ssued: June 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

RIDDOSPAS suppositories (children's)

MANUFACTURER: Riddell Products, Ltd., 10 Dunbridge Street, London, E.2.

DESCRIPTION: Pædiatric suppositories containing 50 mgm. of theophylline and 100 mgm. of theobromine in 1 gm.

Indications: Asthma, hayfever, catarrhs in children up to 12 years of age.

Dosage: One daily if necessary. How Supplied: In box of twelve.

First Issued: March 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, September 1, 1962

SYNTOCINON nasal spray

Manufacturer: Sandoz Products, Ltd., 23 Great Castle Street, London, W.1.

DESCRIPTION: Spray solution of synthetic oxytocin containing 40 oxytocic units per mil.

INDICATIONS: To facilitate the establishment of breast feeding by eliciting the milk let-down reflex—thereby permitting a satisfactory feed, reducing damage to the nipple, preventing or relieving milk engorgement of the breasts, preventing abscess formation. May also be indicated to relieve milk engorgement in non-nursing mothers.

METHOD OF USE: Holding the spray upright, insert the nozzle into the nostril and give the bottle one firm squeeze. This delivers an intranasal dose of approximately 4 oxytocic units. The spray should be used 2-5 minutes before the baby is put to the breast.

How Supplied: In spray bottle of 5 mils.

Supply Restrictions: P.I, S.4B. First Issued: February 1962.

AMENDMENTS

PALADAC LIQUID. Now contains 5,000 units of vitamin A, 400 units of vitamin D, 50 mgm. of ascorbic acid, 3 mgm. each of aneurine hydrochloride and riboflavin, 1 mgm. of pyridoxine hydrochloride and 20 mgm. of nicotinamide per teaspoonful (5 mils).

Town-centre Site for a New Pharmacy

WELWYN CHEMIST REVERSES TREND



AT a time when so many main-street pharmacies are being sold to make way for businesses better able to pay modern rentals, and when, among pharmacies, only the multiples with their huge turnover in non-pharmaceutical mer-chandise seem able to flourish in town-centre positions, a "private" pharma-cist at Welwyn Garden City has boldly reversed the trend. He has opened a new pharmacy on one of the principal shopping thoroughfares in the town, and is setting himself to compete with supermarkets, stores and all comers.

Advantages for the Private Chemist

The pharmacist is Mr. M. A. J. Cooper, M.P.S., whose private limited company (B. & M. Cooper, Ltd.) already operates a pharmacy at Stevenage, and the new premises are at 8 Church Road. Mr. Cooper believes strongly that if the pharmacy is attractive enough, the range of stock wide enough and the service speedy enough, the pharmacist has advantages to offer, especially if he holds exclusive agencies, over more heavily capitalised but less personal competitors. The whole layout has been planned with those objects in view. The wholly "open" glass front, with its four armour-plated glass doors, not only invites customers to come in



Left: The unbacked windows and twin doubledoors of the frontage, Centre: The dispensary. Right: Small counter and shelves at rear for goods not suited to self-selection.

but, by eliminating window displays, leaves the whole staff free all the time to deal with customers. The whole shop is made a display, giving from outside an instant impression of large and varied stocks, from inside a quick and easy identification of the product the customer wants, plus the temptation to look around and buy others. Self-selection is encouraged to the limits of its suitability to a pharmaceutical business, all popular standard medicines, baby foods, etc., being set out on open shelves or on a tray-topped on open shelves or on a tray-topped counter. For purchases that call for a little advice or recommendation or legal formality the customer goes to a small counter at the rear of the shop which, being immediately next to the dispensary and visible through its glass front window, is easily supervised by the pharmacist. There is an itemising till.

Cosmetics Displays

Cosmetics occupy most of the righthand wall of the shop. On the counter, which has a plastic-padded front and a marbled resin-bonded top, lipsticks and other items are easily set out for



comparison of shades, etc., the goods being drawn from glass-fronted wall cases above and below a triple row of drawers, or, of course, from the drawers themselves, in which a tre-mendous number of small items are compactly and inconspicuously tucked away. Above the cosmetic showcases are the display signs of manufacturers whose agency the pharmacy holds. There are two spring-loaded pole displays, one from floor to ceiling just within the window and against the lefthand wall, and the second from cosmetic counter to ceiling.

Seats Not Used

The run of cosmetic counter towards the rear of the shop is terminated by a glass-fronted showcase of photographic apparatus and supplies, and between that and the dispensary is a cushioned bench for waiting customers, with table of periodicals to keep them entertained while they wait, though the tidy appearance on the table suggested that not many customers have to do so.

The central area of the shop, left





At left: A general view of the shop from the rear, showing self-selection shelving and central gondolas. At right: Padded-front cosmetic counter with glass-fronted stock and display cases behind.

free when the shop first opened, has had a rather "bare" look removed by the placing there of two self-selection "gondolas." A staircase leads up to a commodious first-floor room at present empty but with obvious possibilities as a projection room or for displays of Christmas goods; and to a handsomely furnished private office for Mr. Cooper

and common-room for the female staff.

The appeals of light and colour and warmth have not been overlooked. Two parallel rows of six 8-ft. colour-matching fluorescent tubes are suspended from a dark blue-green ceiling, from which also infra-red heaters direct their heat downwards. The walls are painted a light blue.

At the rear, under a neon sign "PRE-SCRIPTIONS," is the door to the dispensary, which is spacious (about 12 x 12 ft. in area), and well appointed, with resin-bonded plastic-topped counters, sliding glass-fronted tablet fixtures, vinyl-tiled floor and shelf and fixture facing finished in an attractive light African wood veneer.

Branch Discussions on "the Report"

(Continued from THE CHEMIST AND DRUGGIST, June 16, p. 657)

SWANSEA AND WEST GLAMOR-GAN: MR. G. Jones thought, as a manufacturers' representative, that the manufacturer was not directly concerned with the report. He considered that those parts of the report relating to assistants, limitation, economic approach, and appearance of premises should be adopted. The presentday chemist was, he said, so tied-up in his dispensary that he was unable to pay full attention to the shop. All the public saw was a mixed-up display, often no different from that of gro-cers' shops. He wondered whether the Chemists Federation policy had harmed pharmacy, inasmuch as pharmacists had thought there was no need to display "chemist only" lines. Some pharmacists who had given up N.H.S. work had found that their turnover had increased because they could devote more time to the counter. He was in favour of the Pharmaceutical Society maintaining a register of assistants.

Mr. G. LENNOX thought the case for the provision of assistants to pharmacists was important in hospitals as they would free the pharmacist from repetitive work. He thought that "technicians" would be a better description. Mr. N. G. M. Burgess suggested that, from the Press reports of branch discussions it appeared pharmacists were "united in their division" over the report. He thought the report seemed to regard "business" as a dirty word. Purely "ethical" pharmacy, he said, could not succeed. To prevail against the Minister of Health, pharmaceutical unity was essential. Limitation would be taken care of by the survival of the fittest. The best professional advertisement of all was provided by personal impact on the part of the pharmacist. Mr. Burgess thought it an omission of the report that it said nothing about training pharmacists in business methods.

MR. G. T. M. DAVID, while commending the report, thought it was about twenty years too late. He considered that the section dealing with restriction to traditional activities, except in the case of departmentalisation, the most important in the report. He said the local pharmaceutical committee should be responsible for initiating and running prescription services in outlying areas. Twenty-four-hour service must come but the pharmacist should be "on call"—not open all the Mr. David said personal titles time. should be restricted to pharmacists otherwise professional value would be diluted in the public eye. He thought that the section on appearances was perfectly correct. The recommendations assistants to pharmaeists must for come

The main recommendations of the report were then put to the meeting. The proposals regarding a generally accepted view of the nature of pharmaceutical practice were accepted.

The recommendations on the acceptance by the pharmaceutical community of full responsibility to provide a pro-fessional service and the provision of a twenty-four-hour service were accepted with the proviso that "only if adequate remuneration was an essential pre-requisite of a full pharmaceutical " It was felt that the "on-call service. method was the best. The recommendation regarding restriction of trading to professional activities except where there was departmentalisation was regarded as impracticable at present, owing to the difficulty of defining the word "suitable." The proposed measures relating to the position of bodies corporate and the authority of pharmaceutical superintendents were accepted.

The meeting was not in entire agreement over limitation of pharmacies, again owing to difficulty of definition (of the word "limit"). The recommendation that there should be a formal procedure in appointing branch managers was thought to need clarifying. The proposals designed to control economic organisations of pharmacies were considered useful only if decided authoratively by a specific body.

That special arrangements for the collection of prescriptions and delivery of medicine to meet the requirements of out-lying areas should be set up, was accepted, provided that such arrangements were run by the Local Pharmaceutical Committees.

The recommendation that the registration of premises should depend upon compliance with conditions necessary to ensure that service of a satisfactory standard could be given was accepted.

SOMERSET: MR. J. C. BLOOMFIELD (a member of Council) outlined the main recommendations of the report to a meeting of the County of Somerset Branch in Taunton on April 12.

The meeting accepted the first three recommendations (on the nature of general pharmaceutical practice), but had reservations about departmentalising the pharmacy and asked for some assurance that the recommendation would be flexible in its application. The Branch agreed that there should be a limit to the number of branches for which the superintendent of a body corporate should be responsible, and that there should be a formal procedure for the appointment of branch managers. The recommendations dealing with economic organisation received widespread accep-

tance, and considerable discussion took place on the recommendation dealing with pharmaceutical service in outlying areas, a subject on which many members could speak with authority.

The recommendation to impose standards of conditions and service as a prerequisite to the registration of premises was unanimously approved, but there was a marked division of opinion on the necessity of providing a twenty-four-hour service. The branch was pre-pared to accept the recommendation relating to the notice on the premises concerning the National Health Service, but did not support the use of restricted titles in connection with the advertising of cosmetic and photographic goods. There was general agreement upon the necessity to improve the appearance of pharmacies, but the recommendation as to window displays was not accepted, again because it was feared the interpretation might be too rigid. The re-commendations concerned with the use of restricted titles, though accepted, were felt to be too late to be effectual.

BRANCH EVENTS

SOMERSET

Annual Meeting

THE annual meeting of the Somerset Branch of the Pharmaceutical Society was held at Wells on July 5, thirty-two members being present. Discussion took place on the situation arising in pharmacy as a result of resolutions passed at the Birmingham special general and annual meetings of the Pharmaceutical Society. Members agreed that unity in pharmacy was essential, and they considered it logical that the Society should be the negotiating body. It was considered much more difficult, however, to find a satisfactory basis on which to formulate a suitable negotiating procedure, but it was agreed to support the second part of the resolution proposed by Mr. F. Murley and passed at the Society's annual meeting (C. & D., May 26, p. 566). A suggestion that the Society should seek affiliation with the Trades Union Council was defeated. Members also considered the position with regard to assistants in dispensing, the view being expressed that the position had not altered from that obtaining in 1953, and that, in consequence. the Society need not make any regulation on the matter. Advertisements for pharmacists in the Pharmaceutical Journal were discussed, and it was agreed to ask the Society's Council to use whatever influence it could to establish a more realistic Joint Industrial Council scale for pharmacists, and that the scale should be used as a basis for acceptance of such advertisements.

OVERSEAS NEWS

AUSTRALIA

New Agricultural Research Centre

ESTABLISHMENT of a new Common-wealth Scientific and Industrial Research Organisation research centre at Townsville, Northern Queensland, was announced recently. The centre will comprise research laboratories and an associated 500-acre field station. Government is providing £300,000 to finance the venture, and the annual expenditure on research is expected to rise to £110,000.

Industry's Gift to Doctors

THE newly asserted independence of the medical profession in Australia was suitably recognised by the Australian Association of Ethical Pharmaceutical Industry at the inaugural meeting of the Australian Medical Association in Ade-



Cecil Colville (president of the Australian Medical Association) wearing the gold medal of the British Medical Association and the presidential chain of office presented by the Australian Association of Ethical Pharmaceutical Industry with Mr. R. G. Menzies (Prime Minister of Australia), at the inaugural congress of the

laide recently. Until 1962 the profession was federated as a section of the British Medical Association. Though still affiliated to the B.M.A. the Association is now constituted a separate national entity. To mark the occasion the A.A.E.P.I. presented to the new Association two gold-plated silver insignia of office, an engraved medallion suspended on a broad ribbon for the chairman of the assembly of the Association and a chain comprising eighteen name panels, two monogrammed shoulder buckles and a medallion for the president. The presentation was made in the presence of the Prime Minister (Mr. R. G. Menzies). Making it, Mr. E. J. Willis (A.A.E.P.I. president) said that members of his Association regarded themselves as "the armourers to the profession."

CEYLON

Pharmaceutical Traders

THE first annual meeting of the Ceylon Pharmaceutical Traders' Association was held at Colombo recently. In the absence of the president (Mr. C. M. Ogle) the vice-president (Mr. M. David Silva) presided. The meeting was attended by representatives of thirtysix firms out of a membership of fifty. A message from the president was read

by Mr. David Silva in which it was stated that the committee had gone into the question of compiling a new trade directory for pharmaceutical products. to include items held as agencies by member companies only. In his own speech, Mr. Silva said that according to the present Government policy, more and more business incentives were being provided. In the past the pharmaceutical trading had been more or less controlled by foreign businessmen, but currently there was a gradual transfer to local control. The Government had provided incentives for the establishment of pharmaceutical factories. The speaker said that for greater stability of the country's economy self-sufficiency in essential economy self-sufficiency in commodities was an absolute necessity. However, it would be "a sad day" the Government chose to control or compete with private industry.

INDIA

Drugs (Amendment) Bill

THE Rajya Sabha [Upper House] of the India Government passed the new Drugs (Amendment) Bill on April 19. The Bill is designed to provide import and sale regulations with regard to "substandard and misbranded" cosmetics. Soaps were not included in the provisions of the Bill, explained the Indian Health Minister (Dr. S. Nayyar) in the debate, because soap manufacture in India was "a well organised indus-

KENYA

Tax Increases

PRESENTING his Budget on June 5, Kenya's first African Finance Minister (Mr. J. Gichuru) announced new direct and indirect taxation estimated to increase the revenue of the country by £2.6 millions. Among the items affected were "patent" medicines. A 25 per cent. tax would be imposed on "patent" medicines. The duty on perfumery and cosmetics would be increased from $66\frac{2}{3}$ per cent. to 75 per cent. Company taxation would also be raised and a corporation tax of 2s. in the £1 on profits (as calculated for income-tax purposes) would be imposed, retroactive to 1961 and not be deductible from dividends.

NEW ZEALAND

Economic Peril of Drug Bill

THE national drug bill was becoming dangerously high and could imperil the economy, warned the New Zealand Minister of Finance (Mr. Lake) at the annual conference of the Chemists' Service Guild at Dunedin recently. In ten years the cost had trebled but there had been no corresponding drop in the number of hospital patients. Mr. Lake stated that the situation should not be allowed to continue.

PAKISTAN

Anti-rheumatic Alkaloid

According to a recent report in the Pakistan journal Chemists Review, a alkaloid exhibiting anti-rheumatic effects has been isolated by a Pakistani biochemist (Dr. K. Ahmad) of the University of Dacca, East Pakistan. The alkaloid—not yet named—which also appears to be beneficial in the treatment of gout, was isolated from the Punarnava plant (Boerhavia diffusa) which occurs widely in Bengal. In order to help further his research work into medicinal plants, Dr. Ahmad was recently awarded a grant by the U.S. Public Health Services.

SOUTH AFRICA

"Non-white" Qualifying Courses Training of "non-white" pharmac

TRAINING of "non-white" pharmacy students in South Africa is to go ahead under arrangements made by the South African Pharmacy Board and recently established university colleges. About thirty African pharmacists are understood to be needed in Bantu areas, Students at the non-white university colleges will take courses for the degree of B.Sc.(Pharm.) of the University of South Africa.

"Safer" Labels Recommendation

A RECOMMENDATION to the Minister of Health that the active ingredients of all "patent" medicines and cleaning materials should be declared on the container labels has been unanimously passed by the South African Pharmacy Board. The proposal, which was put forward by the Pharmaceutical Society of South Africa at the Board's annual conference in Cape Town, is hoped to facilitate the diagnosis and treatment of poisoning.

Review of Poisons Law Requested

A FIERCE condemnation of what he described as "the greatest drug-binge of all time" was made by Professor H. Grant-Whyte (professor of anæsthetics, University of Natal) at a meeting of the South African Medical and Dental Council in Cape Town recently. In a sweeping attack on the widespread misuse of drugs, he urged the Council to request the Health Minister to set up a special commission to review the existing legislation of control, describing the present classifications as "unsatis-factory and dangerous."

WEST GERMANY

Proposed Charge for Medicines

THE Federal Ministry of Labour has drawn up proposals calling on contributors to the national social insurance scheme to pay 10 per cent. of the cost of their medicines, with a minimum charge of DM1 and a maximum of DM3 per prescription. The Ministry also suggests a levy to defray in part the cost of medical treatment during the first six weeks of an illness.

UNITED STATES

Removing Strontium-90 from Bone

AIDED by a \$50,000 grant from the John A. Hartford Foundation, Inc., John A. Hartford Foundation, Inc., New York a search has begun at Stanford Research Institute, Menlo Park, California, for compounds capable of removing strontium-90 from human bone tissue.



Extra vitamins A and D for babies are pleasantly and exactly provided by Adexolin Liquid which is virtually tasteless and presented in a convenient dropper bottle. Adequate supplies of vitamins A and D for pregnant and nursing mothers are amply provided by Adexolin Capsules. The vitamins in both forms of Adexolin are standardised and are made by Glaxo themselves, one of the country's major vitamin producers.

LIQUID: Bottles of $\frac{1}{2}$ oz. and 2 oz. (fitted with plastic droppers) Retail Prices; 2/- and 4/4 Trade Prices; 18/- per doz. and 39/- per doz.

CAPSULES: Bottles of 25 and 100

Retail Prices: 2|- and 6|- Trade Prices: 18|- per doz. and 54|- per doz.





The name Adexolin is a Glaxo trade mark

GLAXO LABORATORIES LIMITED









TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

London, August 29: A strike of lightermen in the London docks began on August 27 causing a hold-up in unloading in some parts of the dock system. The news of the threatened stoppage and its likely effects on imports brought little or no extra inquiry for CRUDE DRUGS and ESSENTIAL Ous on the spot.

First arrivals of new wet-crop Tinnevelly SENNA LEAVES were in the process of landing but PODS, which are late this year, are not expected to arrive for several weeks. CHERRY BARK was twopence per lb. lower with the arrival of new crop bark. MALEFERN for shipment was quoted 10s. per cwt. dearer at 75s., c.i.f. Brazilian MENTHOL was sixpence lower for shipment but Formosan was dearer by one shilling in both positions. A firmer tone in Kobé AGAR was noted at origin following a ninepence per lb. rise for shipment. Spot holders marked up their quotations by threepence.

In essential oils, LEMONGRASS lost a

further ninepence per lb. for forward delivery but spot holders did not change their prices. Brazilian Peppermint was sixpence per lb. lower on the spot and

for shipment.

Pharmaceutical Chemicals

Ammonium acetate. – B.P.C. 1949, 4s. 5d. per lb. - 1-cwt. lots of

Ammonium bicarbonate.—B.P. powder, £50 5s. per ton; carbonate, £81 10s. for lump and £85 10s. for powder.

Ammonium Chloride. — One-cwt. lots B.P. powder, 105s. per cwt.; technical, 55s.

Antimony salts.—Chloride sol., B.P.C., 1934, carboys, 2s. $6\frac{1}{2}$ d. lb.

BISMUTH SALTS. — Prices (per lb.) in

packages over 2-10								
	28 lb. to	1 cwt.	5 cwt.					
	1 CWL.	- CWt.	J CWI.					
	s. d.	s. d.	s. d.					
CARBONATE	20 6	20 0	19 6					
SALICYLATE	20 3	19 9	_					
SUBGALLATE	19 9	19 3	_					
SUBNITRATE	18 6	18 0	17 6					

BISMUTH AMMONIUM CITRATE is 55s. per lb. and—Sodium tartrate, 35s.; oxide, 26s. 10d.; oxychloride, 27s. 3d.; in cartons of 28-lb.

CHALK.—Prepared powder B.P., £22 per ton for minimum 1-ton ex works.

CHLOROCRESOL.—Pharmaceutical quality, 7s. 7d. per lb. (1-cwt. lots).

CHRYSAROBIN.—Per kilo, 5-kilo lots, 180s. Gallic acid.—B.P., 10s. 6d. per lb. for 1-cwt. lots. Technical grade 9s. 9d.

LONDON EXCHANGE RATES

At the opening on Tuesday

At the	opening on	1 uesaay
Amsterdam	Florins to £	$10.09\frac{3}{4} - 10.10$
Bombay	Shillings to	T / C T T / C
	rupee	1/515-1/6六
Brussels	Francs to £	139-30½-139-38½
Copenhagen.	Kronor to £	19·38 ⁷ / ₈ -19·39 ¹ / ₈
Frankfurt	D Marks to £	$11.20\frac{1}{8} - 11.20\frac{1}{8}$
Hong Kong .	Shillings to \$	$1/2\frac{29}{32}-1/3\frac{1}{32}$
Karachi	Shillings to	
	rupee	1/5禄-1/6品
Lisbon	Escudos to £	80.15-80.25
Malaya	Shillings to \$	2/3 31 - 2/4 1
Milan	Lira 10 £	$1.738\frac{5}{8} - 1.738\frac{5}{8}$
Montreal	Dollars to £	3.0118-3.0118
*New York	Dollars to £	2.78-2.82
Oslo	Kronor to £	$20.03\frac{3}{8} - 20.03\frac{5}{8}$
Paris	Francs to £	$13.72\frac{3}{8} - 13.72\frac{5}{8}$
Stockholm	Kronor to £	14.41 5-14.417
Zurich	Francs 10 £	$12 \cdot 10\frac{7}{8} - 12 \cdot 11\frac{1}{8}$
*Bank of Engl	and official lin rom April 26.	ils, Bank rate:

GLYCERIN.—Chemically pure B.P.:—

	Ove 25 to		5 to an und 25 to	d e r	1 to and und 5 to	d er	Und I to	
TANK WAGONS	S.	d.	5.	d.	5.	d.	S.	d.
10-14 tons	176	0	_		_			
5-10 tons	177	6	179	6		-		
DRUMS								
10 cwt.	180	0	182	0	185	0	191	0
5 cwt.	180	0	182	0	185	0	191	0
2½ cw1.	182	6	184	6	187	6	193	6
1 cw1.	184	0	186	0	189	0	195	0
Tins		- 1		- 14				
56 lb.	199	6	201	6	206	6	215	0
28 lb.	205	0	207	0	212	0	220	6
14 lb.	211	6	213	0	218	0	226	6

Delivery of less than 1 cwt. charged 7s. 6d. extra. Drums charged and returnable. Minimum terms for technical grade glycerin s.g. 1.2627 are 171s. 0d. per cwt. for lots of over 25 tons in bulk deliveries of 10–14 tons.

GLYCYRRHETINIC ACID.—Per gm., 2s. 3d. HYDROCHLORIC ACID.—B.P., 50s. per cwt.

Hyoscine hydrobromide.—Per oz. 102s.

Iron Salts.—Gluconate. B.P.C., 5s. 4d.
per lb. in 1-cwt. lots; sulphate. B.P., crystals, 10d. per lb. in 28-lb. lots: 1-cwt.,
60s. per cwt., 5-cwt., 55s. per cwt.; granular, 2s. 6d per cwt. extra. sulphate exsicated, 1s. 6d. per lb. for 28-lb.; 1-cwt.,
123s.; 5-cwt.. 118s. per cwt., 1-cwt. fibre kegs free. Other packages extra. Phosphate, B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt.,
3s. 3d. Phosphate B.P.C., 1-cwt., 3s. 6d.
per lb. Oxide red precipitated, B.P.C.,
1949, 1-cwt., 2s. 1d. per lb.; carbonate,
saccharated, B.P.C., 1949, 28-lb, 3s. 3d.;
1-cwt., 3s. — ammonium citrate, scales,
8s. 10d. per kilo for 500-kilos; granular,
7s. per kilo. — Ammonium sulphate,
1-cwt., 1s. 7d. per lb. — Quinine citrate,
2s. 3d per oz. in 100-oz. tin.

Magnesium carbonate. — Per cwt. HYOSCINE HYDROBROMIDE.—Per oz. 102s.

Magnesium carbonate. — Per cwt. Light, 129s. or 121s. for 1-ton lots; HEAVY, 175s. for 1-cwt. lots; from 130s. to 135s. for 1-ton lots.

1s. 10d. per lb., 5-cwt., 1s. 7d. One-cwt.

Magnesium dihydrogen phosphate. -One-cwt. drums, 4s. per 1b.

MAGNESIUM HYDROXIDE.—B.P.C., 1-cwt. lots, 3s. 7d. per lb.; 1-ton, 3s. 2d. per lb.

Magnesium oxide, B.P.—Light, 1-cwt. lots, 3s. 2d. per 1b.; heavy, 5s. 10d. per lb.

Magnesium peroxide—B.P.C. (15 per cent.), 3s. 11d. per 1b. (1-cwt.).

MAGNESIUM SULPHATE. — B.P. mum 1-ton lots varies between £19 5s, and £25 per ton according to size of crystal and manufacturer. Exsiccated, £53 5s. per

Magnesium trisilicate.—(Per lb.). 28-lb. packages:—28-lb., 4s. 9½d.; 1-c. 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d. 1-cwt.

MENAPHTHONE. — (One-kilo lots). B.P. 160s. per kilo; ACETOMENAPHTHONE, B.P., 160s.; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.), 125s.

bisulphite, U.S.P.), 125s.

MERCURY DERIVATIVES.—Per kilo, under 50-kilo lots—AMMONIATED MERCURY, B.P., lump or powder, 53s. 3d.; PERCHLORIDE, B.P.C., powder, 45s. 6d.; SUBCHLORIDE (calomel), B.P.C., 52s. 3d.; OXIDES, yellow, B.P., 55s.; red, B.P.C., 1949, 56s. 3d.

PARAFFINS.—Prices to wholesale distributors per gall.—Liquid: HEAVY, B.P., in drums, 8s. 8½d. to 8s. 9½d. as to quantity;

over 500 gall. in bulk, 8s. 7½d. Light, B.P., drums, 7s. 1½d. to 7s. 2½d.; bulk, 7s. 0½d. Technical white: Light, 6s. 6d. to 6s. 7d. and 6s. 3d. in bulk; MEDIUM, 7s. 7d. to 7s. 8d., bulk, 7s. 4½d. Drums charged and returnable. Soft: Best grades White, medium consistency, £116 15s. per ton and soft consistency, £113 7s. 6d. Yellow, £94 10s. Other grades (all B.P.) at £95, £100 10s., £106 per ton for white and at £74 17s. 6d. for yellow. All in non-returnable drums delivered.

Phenolphthalein.—One-cwt. 9s. per 1b.

PHENOLPHTHALEIN.—One-cwt. 9s. per 1b. PHOSPHORIC ACIDS.—B.P. (s.g. 1.750) is from 1s. 4d. to 1s. 8d. per lb. as to quantity. B.P. 1914, 1s. 2d. to 1s. 6d. per lb. Hypophosphorous, B.P.C., in winchesters is from 7s. 5d. to 8s. 6d. per lb. as to quantity; drums, 7s. per lb.; 50 per cent. acid in drums, 8s. 9d. per lb.

QUINIDINE.—For 15 kilos or 500 oz. or

Home Trade		Per kilo	Per I00 oz.
QUINIDINE		s. d.	s. d.
SULPHATE		199 1	564 6
ALKALOID CTYST.		260 8	739 1
ALKALOID precip.		263 9	747 9
HYDROCHLORIDE		223 0	632 1
HYDROBROM IDE		216 11	615 0
GLUCONATE		221 9	628 9

Prices include tins and cases and free delivery U.K.

Quinine. — 1,000-oz. lots:—Alkalo'd 4s. 5d. per oz.; sulphate, b.p., 1932, 2s. $10\frac{1}{2}$ d.; sulphate, b.p., 1958, 3s. $2\frac{3}{4}$ d.; bisulphate, 2s. 11d.; dihydrochloride, 4s. 1d.; hydrochloride, 3s. $8\frac{3}{4}$ d.; ethyl carbonate, 4s. 11d.; hydrobromide, 3s. 7d. salicylate, 4s. $7\frac{1}{2}$ d.

SAL PRUNELLA.—Balls, 3s. 10d. per lb. in 1-cwt, lots.

SODIUM ACETATE. — B.P.C., one cwt., 2s. 1d. per lb.

SODIUM ACID PHOSPHATE.—B.P.C., one-cwt. kegs, 2s. 9d. per lb.

Sodium Benzoate. — One-ton 2s. $7\frac{1}{2}$ d. per lb.; 1-cwt., 2s. $9\frac{1}{2}$ d.

SODIUM BICARBONATE.—B.P., 1-cwt. bags. £18 per ton for 8-ton lots.

SODIUM BROMATE. — One-cwt., 9s. 9d.

SODIUM CARBONATE.—B.P.C. exsiccated, 70s. per cwt.; 5-cwt, 65s. per cwt.

Sodium chloride. — B.P., 37s. 4d. per cwt. in sacks.

SODIUM FLUORIDE. — B.P.C. 1934, one-cwt. kegs, 3s. 6d. per lb.

SODIUM HYDROXIDE. — FLAKE, one-ton lots, 55s. per cwt. in 1-cwt. drums.

SODIUM METABISULPHITE. — Granular, 1-cwt. lots, ninepence per lb.

SODIUM NITRITE.—B.P.C. One-cwt. kegs, 2s, 7d, per lb.

SODIUM PERBORATE. — (Per ton) £145 15s. in 1-cwt, kegs; £138 5s. in 1-cwt, bags for B.P.C. (minimum 10 per cent. available oxygen). PERBORATE MONOHYDRATE testing 15 per cent, available oxygen is £309 15s.; TETRAHYDRATE from £131 15s. to £139 5s. per ton as to packing.

Sodium percarbonate. — (Per cwt.) 170s. 9d. (bags 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

SODIUM SALICYLATE, — One-ton lots in bulk, 3s. 9d. per lb.; 5-cwt., 3s. 10d.; 1-cwt., 4s.

SODIUM SULPHATE.—B.P. from £15 to £22 10s, per ton as to crystal, B.P. exsiccated about £56 per ton.

Sodium sulphide.—In 1-ton lots: Solid, £39 2s. 6d.; broken, £40 2s. 6d.; flake, £41 12s. 6d.; crystals, £30.

SODIUM THIOSULPHATE. — Photographic crystals in paper-lined bags, £38 per ton.

Crude Drugs

Aconite. — Spot: Spanish napellus. 2s. 9d. per 1b.

AGAR.—Kobé No. 1, 12s. 3d. per lb. in bond; shipment, 12s., c.i.f.

ALOES. — Cape primes, spot, 175s. per cwt.; shipment, 162s. 6d. to 165s., c.i.f. Curação, spot, 385s.; shipment, 360s., c.i.f.

Anise. — Chinese star 180s. pcr cwt., spot, duty paid; shipment, 160s., c.i.f.

BALSAMS. — Per lb.: CANADA: Spot, 19s. 6d. to 25s. Copaiba: B.p.c. grade, 11s. on spot. Peru: Spot, 8s. 6d., duty paid. Tolu: B.p., from 10s. 9d.

BELLADONNA. — LEAVES, 0.6 per cent. 2s. 3d. per lb., duty paid, end-September delivery. Root, testing over 0.5 per cent. 1s. 10d. per lb.

Buchu. — Spot, 4s. per lb.; shipment, 3s. 10d., c.i.f.

Camphor.—B.P. powder, 3s. $10\frac{1}{2}$ d. per lb. in bond.

CAPSICUMS. -East African on stalk, 150s. per cwt.; Ethiopian, 145s.

CARDAMOMS.—Aleppy greens, 8s. 3d per lb., spot; shipment, 7s., c.i.f.

Cascara. — Spot, 230s. per cwt.; new crop for shipment, 205s., c.i.f.

Cassia. — Fistida, 105s. per cwt.; lignea (whole), for prompt shipment, 240s., c.i.f. Spot, 375s., duty paid; broken,

CHERRY BARK. — Thin natural, 1s. 7d. per lb.; shipment, 1s. $5\frac{3}{4}$ d., c.i.f.

CHILLIES. — Nigerian, 195s. per cwt. Mombasa, 250s.; Zanzibar, 220s.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 11d.; 3 O's, 5s. 7d.; O, 5s. 3d.; quillings, 3s. 10\(^3_4\)d.; featherings, 1s. 10\(^3_4\)d.

CLOVES. — Zanzibar spot, 3s. per lb. for standard grade; shipment, 2s. $8\frac{1}{4}$ d. c.i.f.

COCHINEAL.—Canary Isles black-brilliant 9s. per lb. Silver-grey, nominal. Peruvian, silver-grey, 7s. to 7s. 6d. nominal.

COCILLANA. — Bark, 2s. per 1b. on the

ELEMI.—Spot, 1s. $9\frac{1}{2}$ d. per 1b. Shipment, 1s. 5d., c.i.f.

Frangula. — Spot, 87s. 6d. per cwt., nominal.

GENTIAN.—Awaiting new crop offers.

GINGER. — (Per cwt.). African spot 435s.; shipment, 420s. per cwt., c.i.f. Jamaican No. 3, spot, 615s.; shipment, 585s., c.i.f. Cochin, spot, 210s.; shipment, 210s., c.i.f.

GUM ACACIA. — Kordofan-cleaned sorts, 147s. 6d. per cwt., spot; shipment, 138s.,

HENNA. — Indian, spot, about 95s. per cwt.; shipment, 58s., c.i.f.

Honey. — (Per cwt.). Australian light amber, 100s. to 105s. and medium amber supplies short at 95s. to 100s. Argentine, 122s. 6d. to 127s. 6d.; Jamaican, 115s. to 120s.; Canadian clover, 150s. to 155s. Mexican, 110s. to 115s., cx warehouse.

IPECACUANHA. - Spot cleared. Shipment (c.i.f.); Colombian about 60s. pcr lb.; Costa Rican, 82s. Nicaraguan not quoted.

JUNIPER BERRIES. — Hungarian, 95s. per cwt. spot.

KARAYA. — No. 1 gum, spot nominal; No. 2, 285s. per cwt.

LANOLIN. — ANHYDROUS B.P. is from 140s, to 155s. per cwt. in 1-ton lots dclivered, free drums.

LEMON PEEL.—Spot, 2s. 3d. per 1b.

Natural root: Russian
Anatolian, 57s. 6d.; LIQUORICE. -65s. per cwt.; Anatolian, 57s. 6d.; Persian, 52s. 6d.; Sicilian 1-kilo bundles, 1s. 6d. per lb. Block juice: Anatolian from 200s. per cwt.; Italian stick from 392s. to 470s. per cwt.

MACE. — Whole pale blade, 21s. per

Malefern.—Root for shipment quoted

MENTHOL.—Chinese: spot, 50s. per lb. duty paid; September—October shipment, 45s., c.i.f. Brazilian, 30s. in bond: 28s. 6d., c.i.f. Formosan, 32s. 6d. in bond; Scptember shipment, 29s. 6d., c.i.f. formosan, 32s. 6d., c.i.f.

MERCURY.—About £61 10s. per flask of

Nux vomica.—Cochin, 75s. per cwt. on the spot.

ORANGE PEEL. Orange Peel. — Spot: Sweet ribbon, 1s. 10d. per lb.; bitter quarters: West Indian, 11½d.; Spanish, 1s.; bitter ribbon,

Orris root.—Florentine, 335s. per cwt. Papain.—No. 1, 30s, per 1b., spot.

PEPPER.—White Sarawak spot, 3s. 1d. to 3s. 3d. per lb. as to quality; shipment, 2s. 11d., c.i.f. Black Sarawak spot, 2s. 6\frac{1}{4}d.; shipment, 2s. 2\frac{3}{4}d., c.i.f. Black Malabar, 300s. per cwt. spot; shipment, 280s. c.i.f. 280s., c.i.f.

PEPPERMINT. — Dutch whole leaves, 3s. per lb., c.i.f.

PIMENTO.—Spot, 16l shipment, 500s., f.o.b. -Spot, 161s. per cwt. nominal;

Podophyllum.—Emodi, no offers, Peltatum, 365s. per ewt.

Quassia.—Spot 57s. 6d. per cwt.

QUILLAIA.—Spot 230s. per cwt. Shipment no offers.

RHUBARB. — Chinese small rounds from 4s. 6d. to 9s. per lb. on the spot.

SAFFRON. — Mancha superior, 160s. to 165s. per lb. spot.

SARSAPARILLA. — Jamaican native red 2s. 6d. per lb.; prompt shipment, 2s. 1d., c.i.f.

SEEDS. — (Per cwt.). ANISE.—Syrian, 275s., in bond. CARAWAY. — Dutch, 162s. 6d. duty paid. CELERY. — Indian, 267s. 6d.; shipment, 245s., c.i.f. CORIANDER. — Moroccan, 57s. 6d. duty paid; Indian, 55s.; shipment, Moroccan, 41s. 6d., c.i.f. CUMIN. — Iranian, 157s. 6d. duty paid; Cyprian, 165s.; shipment, Iranian, 126s. 6d., c.i.f. DILL.—Indian, 87s. 6d.; shipment, 66s., c.i.f. FENNEL. — Indian, 115s.; shipment, 112s. 6d., c.i.f. FENUGREEK.—Moroccan, 67s. 6d., duty paid; shipment, 49s., c.i.f. MUSTARD.—English, 65s. to 90s., according to quality. SEEDS. — (Per cwt.). Anise.—Syrian,

SENEGA.—New crop indicated at 15s. to 15s. 6d. per lb., c.i.f.; spot, 16s. 6d., nominal.

SENNA. — (Per lb.). Tinnevelly LEAVES, spot: Prime No. 1, 2s. 1½d.; prime No. 2 ls. 9d.; No. 3, f.a.q., 1s. 2½d. Pods: hand-picked, No. 1 cleared; No. 2, spot 2s. 1d.; manufacturing limited stocks 1s. 8d. Alexandria pods: Manufacturing, 2s.; hand-picked, small lots from 5s. 3d. to 8s. as to quality.

STRAMONIUM.—Continental LEAVES 85s. per cwt. spot.

STYRAX.—Spot, 22s. 6d. per lb.

TRAGACANTH. — No. 1 ribbon, £132 10s. to £135 per cwt. No. 2, £125 to £127 10s.

TURMERIC.—Madras finger now quoted at 160s. per cwt. spot; shipment, up to 162s. 6d., c.i.f., quoted.

Valerian root. — Spot: East European, 175s. per cwt.; Indian, 180s. Shipment: Continental, 172s. 6d., c.i.f.

Vanu Lin.—Rates (per lb.) are now: 5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d 56-lb., 22s.; small quantities, 22s. 6d.

WAXES. — (Per cwt.). BEES'.—Dar-cs-Salaam, spot, 450s.; shipment, 445s., c.i.f. Abyssinian, spot cleared; shipment, 390s., c.i.f. Sudancse, spot, 425s.; shipment, 380s., c.i.f. Candelilla, spot, 465s.; forward, 460s. landed. Carnauba, fatty grey, spot, 380s.; shipment, 342s. 6d., c.i.f.; prime yellow, spot, 605s.; shipment, 580s. c.i.f. c.i.f.

WITCH HAZEL LEAVES. — Spot, 2s. 11d.

Essential and Expressed Oils

Arachis. - Spot, 2-5-ton lots naked, £118 per ton.

CADE.—Spanish, 2s. per lb. for drum lots.

CAJUPUT.—Spot from 10s. per lb.

CANANGA.—Spot, 27s. per lb.

CARDAMOM.—English-distilled unquoted; imported, 260s. per lb.

Castor.—Home produced B.P. oil, spot, £145 per ton naked ex mill (2-ton lots).

CELERY SEED.—From 96s. per lb.

CHENOPODIUM.—About 35s, per lb. in original containers.

CINNAMON. — From quillings, best English-distilled is 650s. per lb.; other B.P. oils from 85s. per lb. Ceylon leaf, 12s.; Seychelles, 7s. 6d. spot.

Cod-Liver. — B.P. is 11s. 6d. per gall. including charged returnable drums. Veterinary is from 9s. 6d. per gall. Delivered terms, 25-stone lots.

Cumin.—Imported oil, 88s. 6d. per lb.

DILL.—Imported, 38s. per lb., spot.

EUCALYPTUS.—B.P., 4s. 9d. to 5s. 3d. per 1b. on spot for 70-75 and 80-85 respectively.

FENNEL. — Spanish sweet, spot, 10s.

Grapefruit.—Florida, 15s. 6d. per 1b. JUNIPER. — B.P.C. 1949 oil is from 15s. per lb. Juniper wood, from 5s.

LAVANDIN.—From 8s. 6d. per lb. as to quality.

LAVENDER SPIKE.—Spanish, 12s. per lb. for original drums.

Lemon. — Californian cold-pressed from 17s. per lb. spot. Sicilian, machine-pressed, 24s. Terpeneless, 320s.

Lemongrass.—Spot, 1 September, 11s. 9d., c.i.f. 13s. 9d. per lb.;

Orange.—Floridan sweet oil, 3s. per lb.; West Indian, 3s. 6d.; West African, 14s. 6d.; Israeli, 5s.; Terpeneless, 225s.

PATCHOULI. — Penang is 23s. 6d., duty paid and 19s. 6d., c.i.f., per lb.

Pennyroyal. — Spot is 20s. peduty paid; new crop prices awaited. per lb...

PEPPERMINT. — Arvensis: Chinese spot, 21s. 6d.; shipment, 18s. 6d., c.i.f. Brazilian spot, 10s.; September shipment, 9s., c.i.f. *Piperita:* Italian, 48s. per lb. spot, American from 26s. to 28s. per lb. as to make.

PETITGRAIN.—Paraguay, 18s. 6d. per 1b., spot; shipment, 17s. 9d., c.i.f.

PIMENTO. — English-distilled berry from 135s, per lb.; imported, 32s. 6d. Rectified leaf, 19s. 6d. per lb.

PINE. — Pumilionis 32s. per lb.; sylvestris, 9s., abietis, 15s.

ROSEMARY.—Spanish is 9s. per lb. spot. Rue.—Spanish is 23s. 6d. per 1b. spot. SAGE.—Spanish 9s. per lb., Dalmatian,

Brazilian is from 2s. 3d. Sassafras. per lb., duty paid.

SPEARMINT.—American oil on the spot 26s. per lb.

UNITED STATES REPORT

NEW YORK, AUGUST 28: Poor collections this year brought a number of price advances for CRUDE DRUGS and BOTANICALS. Higher per lb. were ARNICA FLOWERS at 90 cents, up 10 cents; Belladonna Leaves at 35 cents, up three cents; Hungarian CHAMOMILE at \$2, up 75 cents; Cocillana bark at 25 cents, up five cents; Ergot at \$1.75 up five cents; and GENTIAN at 25 cents, up three cents. MINT OILS were firmer in tone on reports of a short crop. Heavy supplies of Lemongrass oil have been keeping the price tone rather

PRINT AND PUBLICITY

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists, CIBA Laboratories, Ltd., Horsham, Sussex: "Ismelin—Navidrex K , simplifies the treatment of hypertension in general practice (8-n. booklet).

MAY & BAKER, LTD., Dagenham, Essex: "Stemetil . . . effective in migraine, vertigo, nausea, vomiting and psychoses," "Where infection is rife . . . Streptotriad for the treatment and short-term prophylaxis of bacillary dysentery"

(4-p. folders).

Merck, Sharp & Dohme, Ltd., Hoddesden,
Herts: "Aldomet . . . a major advance in
the treatment of hypertension," "Decaspray . . . for convenience and economy in cortico-steroid therapy," "Inflammation plus injection demands Hydroderm " (4-p. folders).

RIKER LABORATORIES, DIVISION OF VANTOREX,

Morley Street, Loughborough, Leics: "Safety, simplicity, economy in the treatment of mild to moderate hypertension, . . Rauwiloid " (blotter).

old "(blotter).

ROCHE PRODUCTS, LTD., 15 Manchester Square,
London, W.1: "Gantanol . . . most effective
sulphonamide for acute tonsillitis, acute
pharyngitis, acute sinusitis," "Librium in
alcoholism" (4-p. folders); "Taractan . . .
the first broad spectrum psychotropic drug." the first broad spectrum psychotropic drug" (blotter).

WANDER, LTD., 42 Upper Grosvenor Street, London, W.1: "Triogesic . . . for oral relief of sinus and ear congestion with pain" (reference card).

WM. R. WARNER & CO., LTD., Eastleigh, Hants: "Nardil" (card).

WEST PHARMACEUTICAL CO., LTD., 9 Palmeira Mansions, Church Road, Hove, 3, Sussex: "She can reduce safely . . . Filon " (leaflet).

PUBLICATIONS

Booklets and Leaflets

AGFA, LTD., 27 Regent Street, London, S.W.1: "Agfacolor for natural colour"—booklet for counter distribution.

CRODA, LTD., Cowick Hall, Snaith, Goole, Yorks: "Fluilan, pure liquid lanolin"—technical data booklet, Pp. 8.

Price Lists

CIBA LABORATORIES, LTD., Horsham, Sussex: List of pharmaceutical preparations, July,

Periodicals

BOWMANS CHEMICALS, LTD., Moss Bank, Widnes, Lancs: Aim. Autumn, 1962. Pp. 16.
BRUCE STARKE & CO., LTD., 5 Fenchurch Street,

London, E.C.3: Dragoco Report, No. 8, 1962. Pp. 16.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," August 8

For cleaning preparations (3) SURKLENE, B830,624, by Imperial Chemical

Industries, Ltd., London, S.W.1. For bleaching preparations in powder form for

laundry use (3) SAPPHIRE, 830,245, by Thomas Hedley &

Co., Ltd., Newcastle-on-Tyne.

For detergents (not for use in industrial and manufacturing processes), soaps and cleaning fluids for industrial use (3)

AERODET, AUTODET, 831,689-90, by James Briggs & Sons, Manchester, 9,

For detergents (not for use in industrial or manufacturing processes) (3)

VETEX, 831,867, by Lever Brothers, Port Sunlight, Ltd., Port Sunlight, Ches. For soaps (3)

HYQUAL, 832,008, by Kirk Soap Makers, Ltd., Coatbridge, Lanarks.

For perfumes, non-medicated toilet preparations, cosmetic preparations, and preparations for the

WEEKENDER MINI-MIST, 832,395, by Lcntheric, Ltd., London, W.1.

For disinfectants and antiseptics (5)
DISPYNA, 818,022, by British Products Sanmex Co., Ltd., Rutherglen, nr. Glasgow.

For pharmaceutical preparations and substances for human and veterinary use (5) SCOLICIDE, 824,993, by CIBA, Ltd., Basle,

Switzerland.

For preparations for destroying insects and verfungicides, and preparations for killing

DITHANE M-22, DITHANE, Z-78, B824,803-04, by Rohm & Haas Co., Philadelphia, Pennsylvania, U.S.A.

For deodorants, disinfectants and sanitary preparations (5)

CRE-DO, 825,992, by Arnaud Parfumeur, S.A., Neuilly-on-Seine, Seine, France.

For dental preparations (5)

DUTERDENT, 826,077, by Laboratoires Goupil, S.A., Cachan, Seine, France.

For pharmaceutical preparations and substances for human use, all flavoured with chocolate (5) CHOCPRIN, 826,580, by Chocprin (Proprie-CHOCPRIN, 826,580, by Chocprin (Ptary), Ltd., Johannesburg, South Africa.

For radiological contrast media (5) VASOCIL, 826,861, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

For mosquito coils, being insecticides (5) Device with words LION BRAND MOS-QUITO COILS, B827,560, by Daido Insecti-cide, K.K., Minami-Ku, Osaka, Japan.

For muscle relaxants, being pharmaceutical pre-

SKELAXIN, 828,341, by A. H. Robins Co., Ltd., Horsham, Sussex.

For pharmaceutical preparations and substances

PREMENSTRAN, 828,548, by Leo Laboratories, Ltd., London, W.1. DYTIDE, 832,112, by Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts.

For anti-cholinergic pharmaceutical preparations (5)

PERITYN, 828,568, by Parke, Davis & Co., Detroit, 32, U.S.A., and Hounslow, Middlesex. For anti-cholinergic pharmaceutical preparations for export (5)

ILESTYN, 828,570, by Parke, Davis & Co., Detroit, 32, U.S.A., and Hounslow, Middlesex. For first aid outfits sold complete (5)

BRADEX, B829,552, by Bradville, Ltd., London, W.7.

For pharmaceutical preparations for use in the treatment of colds (5)

PROCOL, 829,941, by Smith Kline & French Welwyn Garden City, Laboratories, Ltd.,

For veterinary preparations in the form of grains

SUNSHINE GRAINS, 829,970, by Petfoods, Ltd., Melton Mowbray, Leics.

For vaccines for human use (5)

TRIMUNE, 830,074, by Evans Medical, Ltd., Speke, Liverpool, 24,

For all goods (5)

MELIFERM, 830,354, by Svenska Sockerfabriks, A.B., Malmö, Sweden, AMPROLPLUS, 830,779 by Merck & Co., Inc., Rahway, New Jersey, U.S.A. SAVENTRINE, 833,859, by Pharmax, Ltd., Bexleyhcath, Kent.

For pharmaceutical preparations for human and veterinary use, sanitary substances, medical and surgical plasters, material prepared for bandaging,

disinfectants and antiseptics (5)
IDALOGEN, 830,694, TEGRETOL, 831,335, by P. R. Geigy, S.A., Basle, Switzerland.

For X-ray contrast media (5)
FABATRAST, 831,225, by Farbenfa Bayer, A.G., Leverkusen, 22c, Germany, Farbenfabriken

For pharmaceutical preparations and substances

for oral administration (5) CHENORAL, 831,470, by Beecham Research Laboratories, Ltd., Brentford, Middlesex.

For medicated preparations in cream form, containing cod-liver oil and antiseptics (5)
MORHUSEPT, 831,617, by Priory Labora-

tories, Ltd., West Drayton, Middlesex.

For autibiotics (5)
LYSAMYCIN, 832,199, by Imperial Chemical Industries, Ltd., London, S.W.1.

For sanitary chemical substances for use as disin-fectants and deodorants (5)

ROTOCLEAN, 833,111, by W. & F. Walker, Ltd., Liverpool.

For pharmaceutical preparations (5)

MUNDISAL, 833,171, by Mundi-Pharma, A.G., Kaiserstrasse, 4, Switzerland.

For safety razor blades (8)

Device with words BLUE GILLETTE BLADE EXTRA, 821,379, by Gillette Industries, Ltd., Isleworth, Middlesex.

COMMERCIAL TELEVISION

Figures in these columns represent number of appearances of the product during the week.

September 9-15	London	Midland	North	Scotland	Wales	South	Z E	Anglia	Ulster	Westwar	Border	Grampia	Eireann	Chan, Is,
4711 eau de Cologne	 3	3	_	_	_	3	_	_	_	_	_	_	_	_
Alka Seltzer	 _	—	1	-	-		-	_	_	_	_	_	2	2
Anadin	 3	5	5	1	4	1	5	2	1	ī	4	1	_	—
Andrews "liver salt"	 -	_	_	_	4	3	1	3	2	—	3	2	_	—
Askit	 _	—	_	14	—	-	_		_	—	7	_	_	—
Biskoids	 —	—	—	—	—	_	5	_	_	—	—	—	—	—
Chandau hair spray and lacquer	 -	1	_	—			_	_	—	_		_	_	—
Cuticura	 2	2	1		1	_			-	_	—	—	_	_
Delrosa	 —	—	$\overline{}$	2	2	3	2		3	—	_	_	$\overline{}$	-
Delsey	 _	—	_	_	_	_	3		_	—	—	—	_	_
Eno's Fruit Salt	 —	—	2	2		3	<u>.</u>	_	_	_	_	_	_	—
Goddard's cream and embrocation	 1	—	_	_	—	—	_	—	—	_			—	_
Hedex	 _	—	_			2	—	_	_	_	_	_	_	_
Hi-Five	 1	2	1	2	1	1	2	2	2	.2	2	2	_	_
Kleenex	 -	_	1	—	-	—	_		—	÷	—	_	_	—
Milk of Magnesia	 _	3	1	2	3	2	2	2	2	3	3	3	_	_
Rinstead pastilles	 _	—	\rightarrow	—	1	1		_	_	1	1	—	_	_
Rosedale dry shampoo	 3	1	1	3	2	2	3	4	3	3	—		_	—
Sebbix	 3	3	3	2	2		2	_	_	—	_	_		—
VO-5 conditioner ,	 5	2	2	1	_	—		_	_	_	_	_	_	-
Get Set	 4	2	2	—	—	—	—	_	_			_	_	_
hair spray	 10	3	2	1	—			_	_		_	_		_

COMING EVENTS Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, September 3

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, lecture hall, Freedom Fields hospital, Greenbank, Plymouth, at 7.30 p.m. Brains trust.

Tuesday, September 4

BRITISH MEDICAL ASSOCIATION, B,M,A, House, Tavistock Square, London, W.C.1, at 9.30 a.m. International conference on alcohol and road traffie. (Until September 7.)

Advance Information

UTRECHT TRADE FAIR, Vredenburgh Buildings and Juliana Hall, Utrecht, Holland, September 10-18.

INTERNATIONAL FACTORY EQUIPMENT EXHIBITION, Belle Vue, Manchester. September 19-28.

INDROFA. INTERNATIONALE DROGISTEN-FACHAUS-STELLUNG, Hamburg, Western Germany, September 20-23.

INTERNATIONAL SYMPOSIUM ON "FOOD REGULA-TIONS IN RELATION TO INTERNATIONAL TRADE," Church House, Westminster, London, S.W.1. September 24.

NOTES ON NEW **MEDICAMENTS**

ABSTEM.—Chemistry: Calcium carbimide, stabilised by the addition of citric acid, Calcium ear-bimide inhibits the enzyme system responsble for the metabolic oxidation of alcohol. The process is a progressive one; in the first stage acetaldehyde is formed which is then oxidised to acetic acid and thence to carbon dioxide and water. Calcium carbimide inhibits the oxidation process at the aldehyde stage, When both alcohol and calcium carbimide are present in the body, acetaldehyde accumulates in the blood and causes toxic effects such as headache, tachycardia, weakness and other unpleasant symptoms. The accumulation of acetaldehyde in the blood is the basis of the use of calcium carbimide in the treatment of alcoholism. Disulfiram, or tetraethylthiuram disulphide (Antabuse, Cronetal) has a similar action.

CARDIVIX.—Chemistry: 2-ethyl-3-(4-hydroxy-3-5-diiodo-benzoyl) benzofuran. The compound, also known as benziodarone, has a powerful coronary dilator effect. It is characterised by its selective action on the coronary vessels, as no other part of the circulatory system is affected to any appreciable extent. The drug is also exceptional in being an iodinated compound, although it is metabolised to some extent in the body the iodine remains bound and does not affect thyroid function. Other coronary dilators, apart from the organic nitrates, include the monoamine oxidase inhibitors, represented by isocarboxazid (Marplan), nialamide (Niamid) benzylpivaloylhydrazine (Tersavid); prenylamine lactate (Synadrin) and Persantin.

CILOPRINE.—Constituents: Sodium 4-amino-4'carboxymethyl aminodiphenylsulphone, N-N'-di (hydroxymethyl) urea and glycerin. The product has wax-softening as well as antibacterial properties. Other preparations, excluding antibiotics, used in the treatment of otitis are represented by Auralgicin, Otamidyl, Ototrane, Sedonan, Tympalgin and Ryotol.

COLIBAR CREAM,—Constituents: Aluminium chloride and hexaehlorophane in an emulsified base, Aluminium chloride has astringent and anhidrotic properties, and hexachlorophane is a wide-range antiseptic. When used over a period, the compound accumulates in the skin and has a useful action in reducing the bacterial population of the superficial tissues. Other preparations used as skin protectives in ileostomy are represented by Kerodex Double Seven (aluminium stearate in a liquid paraffin and castor oil base) and Conotrane (penotrane and silicone). Preparations containing aluminuim powder, such as Baltimore Paste (pasta alumin, co.) have also been used for the same purpose.

ISO-BROVON, -Constituents: Isoprenaline sulphate, methylephedrine and theophylline, presented as a cored tablet. The isoprenaline is in the outer shell of the tablet and is rapidly absorbed; the broncho-dilator effect is sustained by the slower absorption of the methyl ephedrine and theophylline situated in the core. Fydalex is a multi-layered tablet containing isoprenaline, ephedrine, theophylline and car-bromal. Fydal is very similar, with butobarbitone replacing carbromal, Noradran Bitabs contain isoprenaline in a sublingual formulation and ephedrine, theophylline and papaverine as an oral tablet, Iso-Bronchisan contains isoprenaline, ephedrine and theophylline in a single tablet.

KELFERON. - Chemistry: Ferrous glycine sulphate. The gastric irritant effects of ferrous sulphate are well known, and many attempts have been made to reduce that disadvantage. In Kelferon, glyeine is used as a chelating agent, whereby the normal ionisation of the ferrous sulphate and accompanying irritant effects are reduced. An iron complex is also present in Ferroids as iron aminoates. In that preparation the iron is chelated with a mixture of amino acids obtained from protein by hydrolysis. In Sytron, a liquid preparation, monosodium ethylene diamine tetra-acetic acid is used as the chelating or sequestering agent.

NEPHRIL.-Constituents: Polythiazide and potassium chloride. Polythiazide has the general

properties of the thiazide group of digretics. but is more potent. The compound also has anti-hypertensive as well as salt-excreting properties. In common with related drugs, poly-thiazide causes some excretion of potassium; in Nephril, potassium chloride is included to offset any such loss. Other saluretic drugs with potassium supplements include Navidrex-K (cyclopenthiazide-KCl), Esidrex K and Hydrosaluric-K (hydrochlorothiazide-KCl), Di-Ademil-K (hydroflumethiazide-KCl) and Centyl-K (bendrofluazide-KCl).

RIDDOVYDRIN ELIXIR,-Constituents; Drosera extract, glyceryl guaiacolate and ascorbic acid, with syrups of tolu and blackcurrant, Glyceryl guaiacolate, also known as guaiphenesin, has expectorant properties and tends to liquefy mucous secretions. It is the main constituent of Respenyl; and is also present with an antihista-mine in Distolyt and Robitussin, with methyl ephedrine in Pulmodrine, and with ephedrinc and mepyramine in Nirolex.

SYNTOCINON SPRAY .- Constituent: Synthetic oxytocin. Although the hormone prolactin, released by the anterior lobe of the pituitary gland, is responsible for the secretion of milk within the mamary gland, oxytocin, the polypeptide hormone of the posterior pituitary gland, is closely concerned with the contraction process that forces the milk into the ducts converging on the nipple. That contraction process is a reflex one, and may be inhibited by various stress conditions, Inhibition of "milk letdown " can be overcome by injections of oxytocin, and further developments have permitted the formulation of the hormone in a spray that can be absorbed from the nasal mucosa. Synthetic oxytocin is available for injection as Syntocinon; the natural hormone is present in Pito-

TRICLORYL.—Chemistry: Sodium trichlorethylphosphate, also known as triclofos, Chloral hydrate is metabolised in the body to form trichlorethanol, to which the sedative action of chloral is mainly due. Trichlorethanol itself has been used therapeutically, but has many of the inherent disadvantages of the parent drug. Conversion to the monosodium salt of the phosphoric acid ester eliminates the gastric irritant effects and other disadvantages of chloral and trichlorethanol, and also permits presentation of the drug in tablet form. Welldorm, a combination of chloral and phenazone, represents another successful approach to the problem of formulating a chloral derivative as a tablet.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," August 22 Composition for lowering the cholesterol level. Laboratoires Laroche Navarron, 907,841. Steroid and the manufacturing thereof. Upjohn

Co. 907,812.

Prolonged release medicament and a method of producing same. Abbott Laboratories, 908,016. Sulphamoyl-tetrahydro-quinazolinones, CIBA, Ltd. 907.847.

Steroids and the manufacture thereof, Upjohn Co. 907,813-14.

Yohimbane derivatives. Roussel-Uclaf. 907,802. Milk food for babies. G. Lemke. 907,772. Compounds of the dihydrofuran series and pro-

cess for their preparation, J. R. Geigy, A.G. 907 620.

Antibiotics, Glaxo Laboratories, Ltd. 907,776. Diphenylmethane derivatives, Koninklijke Pharmaceutische Fabrieken Voorheen Brocadesstheeman & Pharmacia, N.V. 907,828.

5-Aryl-2-amino-2-oxazolin-4-ones, American Cyanamid Co. 907,848.

Process for the preparation of diglycosylureas. W. R. Grace & Co. 907,786. α,β-DI-benzoxazol-2-YL-ethylene derivative, CIBA,

Ltd. 907,819

Manufacture of halopropenes, Allied Chemical Corporation, 908,023.

Octahyro-isoquinoline derivatives and the manufacture thereof. F. Hoffman-La Roche & Co., A.G. 907,820.

Process for the production of 6-(21,61,61-trimethylcyclohexen-11-YL)-4-hydroxy-4-methylhex-5- en -1-YN. Farbenfabriken Bayer, A.G. 907,849.

Method of producing citric acid by fermentation, Miles Laboratories, Inc. 908,024.

2-3, 3-4-Discio yohimbane derivatives and their preparation, Roussel-Uclaf, 907,803.

Tryptamine derivatives. Roussel-Uclaf. 907,804. 17α -alkyl- 17β -hydroxyester-1-en-3-ones and derivatives thereof, G. D. Searle & Co. 907,677.

Process for the treatment of seed and fungicides

for use therein, Imperial Chemical Industries. 907.811.

Plant growth stimulant. Merck & Co., Inc. 907,834.

Method of eradicating rust on plants and rust eradicant compositions. Rohm & Haas Co. 907,842.

Thiocyano alkyl benzene derivatives. Diamond Alkali Co. 907,807.

Copper-containing fungicides.
Industrial De L'Azote, 907,800. Office National

Resilient pads for use in packaging, S. Kremner. 907.792.

Packages for flat articles, such as surgical supplies. Pratt Manufacturing Corporation, 907,604.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chan-ecry Lane, London, W.C.2, from October 10.

CONTEMPORARY THEMES

Subjects of contributions in current medical and

technical periodicals

HUMAN MILK. Protective effects of, in experimental staphylococcus infection. Science, August 3.

ACTINONIN: an antibiotic substance produced by an actinomycete, Nature, August 18,

SARIN. Refractoriness (Tachyphylaxis) to. Nature, August 18.

RESPONSE of plants to root-absorbed chemical growth substances applied in culture solutions. Nature, August 18.

FLUID THERAPY. A reappraisal of, in the burned patient, J. Amer. med. Ass., August 4.

THE REVEREND JOSEPH PRIESTLEY-Natural Philosopher. J. Amer. med. Ass., August 4.

ALKYL p-HYDROXYBENZOATE ESTERS as pharmaceutical preservatives: A review of the parabens, Amer. J. hosp. Pharm., July.

BLOOD CLOTTING FACTORS. Toxicity of, Science, August 10.

Cross-Infection. Control of, in a surgical ward. Lancet, August 25.

MALIGNANT SMALLPOX treated with compound 33T57. Brit. med. J., August 25.

SYNTOMETRINE. Use of, in Rotunda hospital district maternity service. Brit. med. J., August 25. IMMUNISATION of sheep with multi-component clostridial vaccines. Vet. Rec., August 25.

WILLS

MR. A. D. BELL, M.P.S., 8 Franmil Road, Hornchurch, Essex, left £6,078 (£6,008 net).

MR. E. E. BLAKE, Kingsway House, Shakes-peare Road, Bedford (former chairman and managing director of Kodak, Ltd.), left £97,890 (£85,887 nct).

MR. R. BICKET, M.P.S., 1 John Street, Lane Head, Brighouse, Yorks, left £3,554 (£3,266 net). Mr. R. Booth, M.P.S., 11 Wrosc Road, Bradford, Yorks, left £36,327 (£36,147 net).

MR. R. BREARLEY, M.P.S., Branch End, Gildersome, Leeds, left £4,978 (£4,903 nct).

MR, J. BUXTON, M.P.S., 207 Church Hill Road, Cheam, Surrey, left £4,355 (£4,267 net).

Mr. W. Charlton, M.P.S., 186 Spring Bank, Hull, Yorks, left £17,364 (£17,269 net).

MR. H. E. CLARK, 43 Highway Road, Leicester, who qualified as a chemist and druggist in 1904, left £11,013 (£10,937 net).

MR. C. A. CONLAN, M.P.S., 6 Olive Grov Mill Lane, Liverpool, left £5.548 (£4,688 net). 6 Olive Grove,

MR. W. J. COOKE, M.P.S., 52 Devonshire Road, Harrow, Middlesex, left £6,470 (£3,394 net).

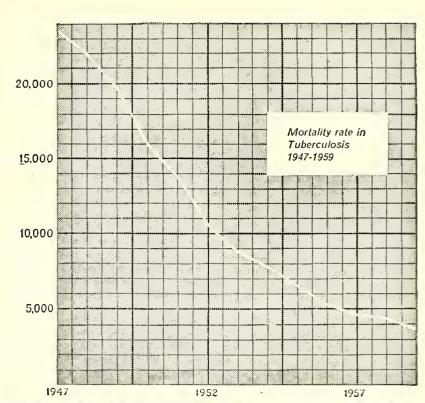
MISS LILIAN CROFT, M.P.S., 102 Southampton Street, Reading, Berks, left £10,706 (£9,871 net). MR. D. McL. V. TURNBULL, M.P.S., White Cottage, Langlands Road, Hawick, Roxburghs, left personal estate in England, Scotland and

abroad valued at £9,112.





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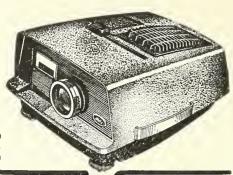
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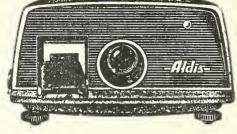


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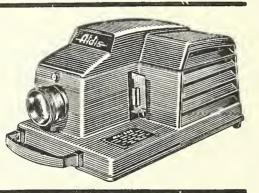
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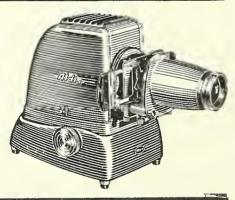
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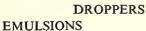
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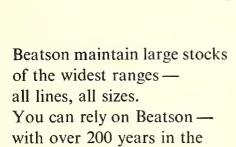


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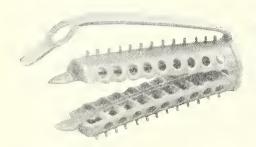
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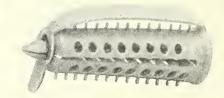
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Arcadian Works, Ltd	Dev Products, Ltd
Askit, Ltd 36	Drivers of Lee Green, Ltd
	Dunlop Rubber Co., Ltd10, 11
Barker, Robert, & Son, Ltd	Furman, B. N., Ltd
Beatson, Clark & Co., Ltd	Turman, D. 14., Etc.
Beavais	Gedeon, Richter (G.B.), Ltd
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Berdoe & Fish	Glover, Thos., & Son, Ltd
Blythe, William, & Co., Ltd	Goddard, J. G., & Co
Boots Pure Drug Co., LtdInterleaved Edit., 226	Golden, Ltd. (Color-Glo)
Brown, Neville, & Co., Ltd	Golden, Ltd. (Tress)
Burnet, A., & Co	Graesser-Thomas, Ltd., H. W. 42
Burrough, James, Ltd	Gracosci-Thomas, Eta., 11. W
Burroughs Wellcome & CoPrice List Sup., Page 1	Haetam, Ltd 4
	Hosezene Co., Ltd., The
Cannon Rubber Manufacturers, Ltd	•
Caplin, J. L., Ltd	International Chemical Co. (Kolynos)
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INDEX (cont.)

		Robinson & Sons, Ltd. 29	9
Lastonet Products, Ltd14,	15	Rochdale Metal Products, Ltd	2
Lewis Woolf, Griptight, LtdInterleaved Edit.,			
Liddle, Keen & Co., Ltd.		S.A.V.E.P.I.A.M.	4
Lilly, Eli, & Co., LtdInterleaved Edit.,	28	Seymour, Jane, Ltd	
Lincoln Chemicals, Ltd.	30	Shadeine Co., Ltd., The	
London Rubber (Industries), Ltd.	38	Sigma Photo-Service, Ltd.	
		Smith & Nephew, Ltd	
Margolis, Sidney, Ltd.		Stafford-Miller, Ltd	4
Maund & Berg, Ltd.		Stewart, Goodall & Dunlop, Ltd	
May & Baker, Ltd40,	41		
	29		_
Meggeson & CoPrice List Sup., Page	2	Taylor, Edward, Ltd.	
Monil, LtdCover	iii	Torbet Lactic Oat Co., Ltd	4
New Hygiene, LtdCover	ii	Vitamins, LtdCover	ii
Pharmaceutical Specialities (May & Baker), Ltd	30		
Philips Electrical, Ltd.	18	Wander, A., Ltd.	
Potter & Clarke, Ltd.	9	Wood, Bastow, Ltd	
Progress Shaving Brush, Ltd.	35	Wright, Layman & Umney, Ltd	4
Rapidol, Ltd.	24	Zeal, G. H., LtdCover i	ii



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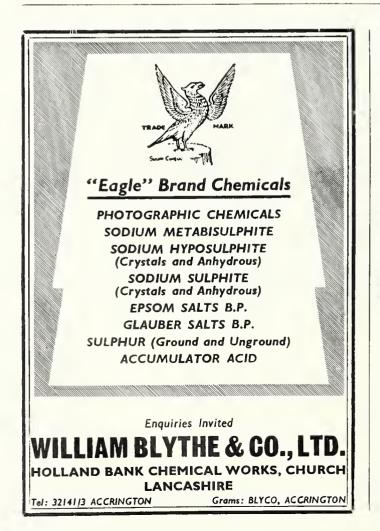
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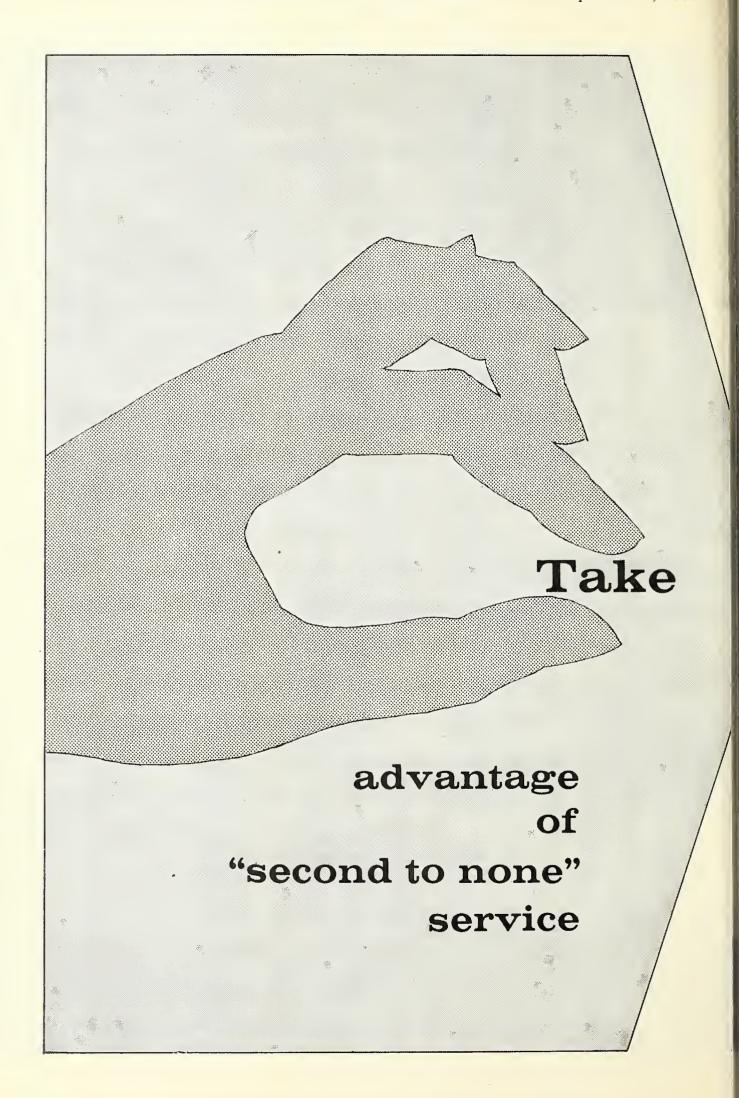
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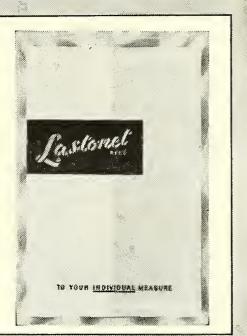




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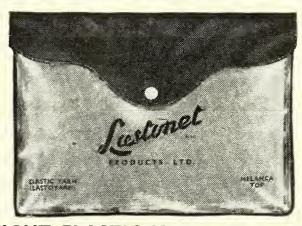
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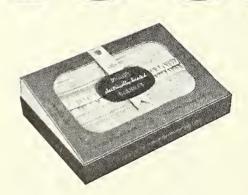
ELASTOPLAST AND DETTOL

4POFF!

2/5½° value (1/5½° size Dettol and 1/- size Elastoplast) for only 2/1½°. Only limited supplies — so order big stocks now!

BIG EXTRA SALES!
BIG EXTRA PROFITS!

ALLO SELECTRIC BLANKETS FROM £3.16.4



SPECIAL SUMMER BUYING TERMS, TOO!

Terrific value, tremendous sellers! That sums up Philips Electric Blankets, with their price range starting as low as £3.16.4d. And the special summer terms make them even more profitable for you. So do get an order in right away!

FULL NATIONAL SUPPORT

A big campaign for Philips Blankets will be seen by millions of readers of big national newspapers in the vital months of November, December, January. And the impact of the hard-selling advertisements on a vast number of value-conscious, house-proud people will be backed up by extensive point-of-sale displays and full-colour leaflets.

Times of advertising have been selected to cover the peak selling period for these products. But don't delay. Don't be caught with your stocks down. Take full advantage of bigger sales this autumn as well as winter—full advantage, too, of the summer special buying terms—and STOCK UP NOW.



Philips Electrical Ltd., Century Hse., Shaftesbury Ave., London W.C.2

(PEA/EBS9B)

COUNTY LABORATORIES LIMITED

announce the following

PRICE REVISIONS

on Brylcreem and Macleans Toothpaste, effective on 1st September, 1962

	VI			ı
K		 K		ı

PRODUCT	RETAIL SELLING PRICE	STANDARD WHOLESALE PRICE	PURCHASE TAX
A.44 JUNIOR TUB	2/- EACH	I3/I DOZ.	5/II DOZ.
A.47 MEDIUM TUB	3/- "	19/8 ,,	8/10½ "
A.48 LARGE TUB	5/6 ,,	36/1 "	16/3 "
A.35 LARGE TUBE	2/6 ,,	16/5 "	7/5 ,,
A.36 KING SIZE TUBE	3/6 ,,	22/11 "	10/4 ,,
A.81 DISPENSER REFILL (No changes for Home Dispenser)	4/3 ,,	27/10 ,,	12/6½ "

MACLEANS TOOTHPASTE

M.51 STANDARD	2/2 "	15/11 ,,	4/~ ,,
M.52 LARGE	3/2 ,,	23/3 ,,	5/10 ,,
M.53 ECONOMY	4/2 ,,	30/8 ,,	7/8 ,,

Revised price lists have been mailed to all direct accounts

COUNTY LABORATORIES LIMITED, BEECHAM HOUSE WEST, BRENTFORD, MIDDLESEX. ISLEWORTH 4171



You'll be seeing a lot of her in

Corvette's

spectacular new advertising!

The most sensational advertising ever for **Corvette**

starts next month!

Big spaces in Britain's
biggest daily papers

Daily Express & Daily Mirror
again and again—September
through to Christmas.

Plus! Special Christmas Gift
Advertising in Woman's Own

Stock and display CORVETTE for extra profits

Corvette Limited, 161 New Bond St, London W1







Margaret Lockwood sponsors NULON

in heaviest-ever TV hand cream campaign

Now's the time to stock up with NULON to meet the big autumn demand!

In the heaviest-ever TV campaign for any hand cream, Margaret Lockwood, glamorous star of stage and screen, will sponsor NULON in powerful 30-second spots. This great new series of NULON commercials will run from November 1962 to March 1963 on all stations.

Generous bonus terms

Remember the huge demand that followed last year's NULON campaign, and stock up *now*. Generous bonus terms are available — details from your Reckitt's representative. Don't be caught without the nation's most popular hand cream. Get NULON in bottles and tubes — *now!*

N.B., special Christmas packs available.

RECKITT & SONS LIMITED, HULL.



An Announcement BY LEWIS WOOLF GRIPTIGHT LIMITED

For a number of years, Lewis Woolf Griptight Ltd. have had the pleasure of manufacturing for Messrs. S. Maw Son and Sons Ltd. transparent Latex feedteats, known as Maw's teats, and they feel sure that the high quality and workmanship of these products have been generally recognised.

Despite negotiations extending over eighteen months, Lewis Woolf Griptight Ltd. have felt themselves unable to accept the terms of business offered to them by Messrs. S. Maw Son and Sons Ltd. in respect of future contracts and therefore propose to market their entire production under their own brand names of GRIPTIGHT, FREFLO and CLARITEX.



By October 1st, supported by the largest advertising programme yet presented in this field, Lewis Woolf Griptight will offer a well-packaged series of teats, bottles and allied articles, constituting in quality, value and appearance the best this country has ever seen. These products will be distributed through the usual trade channels, with whom Lewis Woolf Griptight have dealt for more than seventy-five years.



Every chemist who stocks "Griptight" products, now or in the future, can derive confidence from the fact that they are acknowledged in more than eighty export markets to be the best in the world. Indeed, Lewis Woolf Griptight products now constitute about 90% of all latex teats and soothers exported from Britain, while, during the past five years, about 80% of all pure latex teats sold in British chemists' shops have been made by Lewis Woolf Griptight Ltd., of Birmingham, England.



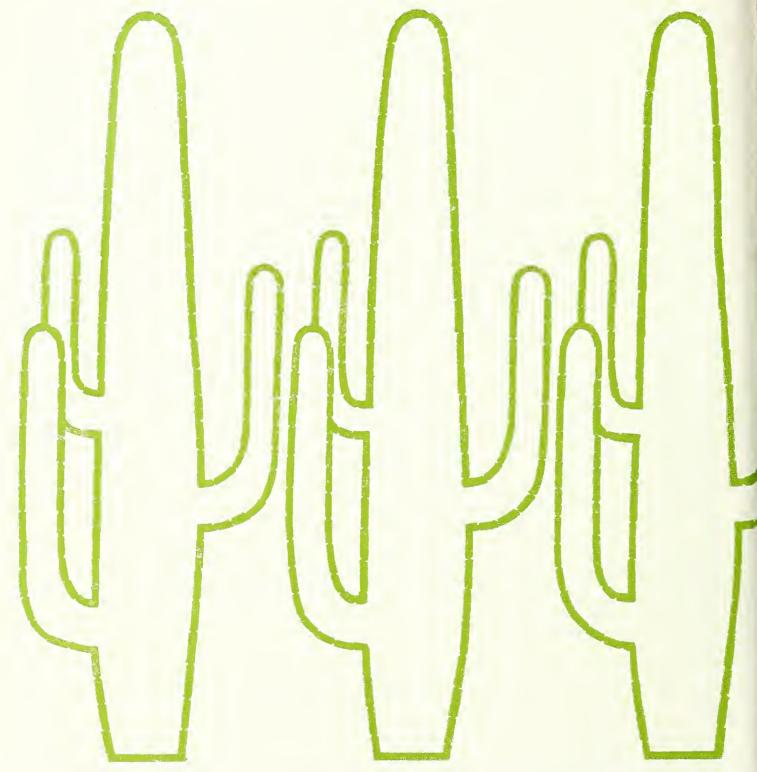
Transparent latex feedteats can be made by a number of processes. Those made by the unique Griptight process can readily be recognised by their outstanding clarity and resilience. An important feature of the Griptight process is absence of "pip" on the teat-end, which often causes lack of flow-rate homogeneity so important in baby-feeding.

With the incomparable shelf-life and *effective* use-life they possess it is small wonder that of eleven British feedteats recently tested by an independent source the four most satisfactory in all respects were, in fact, manufactured by Lewis Woolf Griptight Ltd.

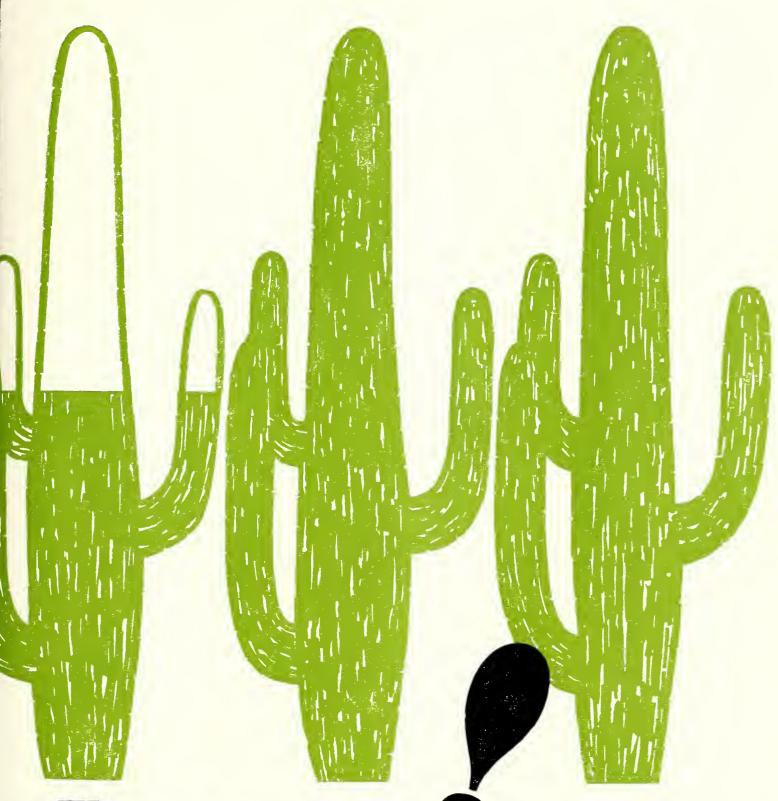
LEWIS WOOLF GRIPTIGHT LIMITED

144 OAKFIELD ROAD · SELLY OAK · BIRMINGHAM 29

The World's largest manufacturers of Transparent Latex Teats.



How to put cactus in a bo



and sell out

Exactly how Richard Hudnut put cactus in a bottle is a trade secret. Naturally. But it's no secret how they do it for your profit. They just make sure everyone knows why they're doing it. When women, particularly women under forty-five, hear that the essence of certain cactus cells helps make the best moisturising beauty lotion ever—they buy. They buy like crazy. They've done it in every country where "Cream of Cactus" has been introduced. Now Richard Hudnut are going to tell the "Why Cactus?" story in Britain. Starting with a full page ad in the Daily Mirror on September 18th. Four million women under forty-five will be able to read it that day. So you'll better get ready to take your share of the profits. Stock up. Never under-estimate the demand for a new beauty lotion. And never under-estimate the influence of the



the *Silly* medical representative is now discussing with your doctors

TRADE MARK ELORI

ACETOHEXAMIDE

New oral anti-diabetic agent which provides dependable and economical control of stable adult diabetes with a "once daily" dosage.

Availability

Tablets 'Dimelor' 500 mg. yellow, scored. In bottles of 100, 500 and 1,000.

Trade Prices

100 19 - 500 89/- 1,000 175/-

From your usual Lilly Wholesaler

ELI LILLY AND COMPANY LIMITED . BASINGSTOKE . ENGLAND



WISE GIRL SHE KNOWS **QUALITY** and she can **INCREASE YOUR** SALES



This confident and poised young woman appearing now in national women's magazines will bring you many new customers who insist on Mene, the quality towel. Have you the stock to meet this increased demand? Make sure by ordering at once and take advantage of our special discount offer of from 5% to 10%. Ask for details - NOW.



ROBINSON AND SONS LTD WHEAT BRIDGE MILLS, CHESTERFIELD TELEPHONE: CHESTERFIELD 2105



how to pay the school fees

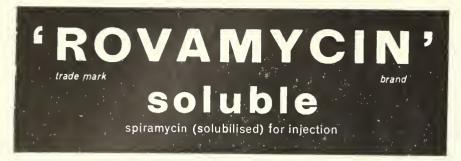
No piggy bank for you!

Paying the school fees is no longer a burden thanks to the M.I.S SCHOLASTIC PLANdesigned specially for you, the professional man, with your particular problems in mind.

Post the coupon today every day is one nearer the date when the fees must be paid.

May I have more details of	the SCHOLASTIC PLAN
Name	
Address	
·······	
MEDICAL INSURANCE SERVICES (PROFESSIONS SUPPLEMENTARY TO MEDICINE) LTD	131-133 New London Road, Chelmsford, Essex Chelmsford 51581

70





A new development for the control of mycoplasmosis (sinusitis and air sacculitis) in turkeys

'Rovamycin' soluble offers the following advantages in the treatment of this disease:

- Control of infection in the sinuses and, more important, in the air sacs and air passages
- A single injection is effective without draining of affected sinuses
- Proved rapid and effective under normal farm conditions

Supplied on the prescription of a veterinary surgeon in multi-dose bottles containing the equivalent of 3, 10 and 35 grammes spiramycin base

Detailed information is available upon request

Manufactured by

VA2002

MAY & BAKER LTD

DISTRIBUTORS: PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD · DAGENHAM · ESSEX

Tel: DOMINION 3060 EXT. 224

INJECTION SOLUTIONS

IN AMPOULES AND R/C VIALS

STANDARD PREPARATIONS OR YOUR OWN FORMULAE MADE UNDER RIGID CONTROL. STRICTEST CONFIDENCE

NEW PLANT TO COPE WITH SUBSTANTIAL PRODUCTION

PRINTING ON GLASS

WE LABEL AND PACK TO YOUR INSTRUCTIONS

PRICES ARE COMPETITIVE

Enquiries to:

THE MANAGING DIRECTOR]

GEDEON RICHTER (Gt. Britain) LTD. WEEDINGTON ROAD · LONDON · N.W.5

TELEPHONE: GUL 3478

NEW FROM LING-O-LIN

Have you seen the new pack for LINC-O-LIN 'Hair do' Plastic Set. Those who see it usually stock it, those who stock it always sell it—fast. In 4-oz. and 16-oz. containers.

LACQUER REMOVING SHAMPOO

Repeat orders are already coming in for this product—only just launched! A really successful answer to a modern hair problem.

OLIVE OIL SHAMPOO

On a super-fatted base for dealing effectively with dry hair.

PLEASE WRITE OR PHONE FOR FULL DETAILS.

LINCOLN CHEMICALS LIMITED LONDON W.3 Telephone

Telephone EALing 8841

BERDOE & FISH

Chemists' Transfer Agents and Valuers
41 ARGYLE SQUARE, KING'S CROSS, W.C.I
(opposite St. Pancras and King's Cross Stations)

VALUATIONS for all purposes
BUSINESSES urgently required
STOCKTAKING for Income Tax purposes
TRANSFERS without publicity our speciality

 All Valuations and Stocktakings carried out under personal supervision of principals.

Established 1870

Phone: TERminus 3574

CHANDAW

appeals to millions of the younger set

This Autumn Chandau are launching a major publicity campaign which will appeal to young women and teenage girls throughout Britain. T.V. commercials, national daily papers—such as the 'Daily Mirror'—and magazines for the younger woman: 'Honey', 'Serenade', 'True Story', 'Valentine', 'True Romances' etc. will carry advertisements for Chandau Hair Lacquer and Hair Spray. Millions of viewers and readers will create an even greater demand for Chandau this Autumn and Christmas. Be sure you display Chandau on your counter and watch your sales rise!

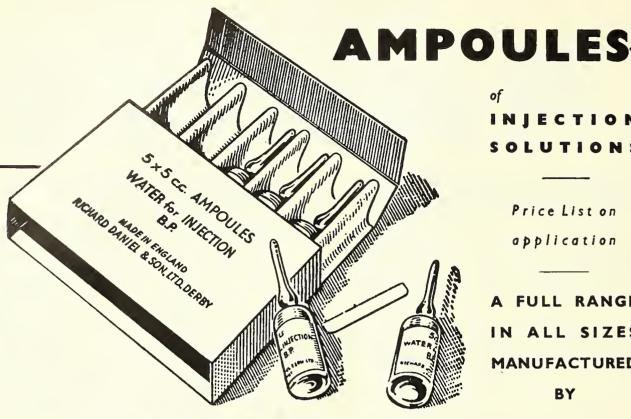


Junior Size Squeeze Pack 2/6 Refills 1/6	
Hair Spray Giant Aerosol 6/6 Hair Spray Squeeze Pack 4/- Refills 2/6	

From your wholesaler or direct from sole manufacturers:

T. L. BENTON & CO. LTD.,

186 SEVEN SISTERS ROAD, LONDON, N.7. Telephone: ARChway 2674



INIECTION SOLUTIONS

> Price List on application

A FULL RANGE IN ALL SIZES MANUFACTURED BY

RICHARD DANIEL SON

MANSFIELD ROAD, DERBY

TEL: 40671 (10 lines)

Also at ASHTON-UNDER-LYNE. TEL: 5161 (9 Lines) and North Wingfield Road, GRASSMOOR. TEL: Holmewood 481 (5 lines)

BRAND NEW · HEAVY GAUGE STEEL SHELVING

FREE DELIVERY!

N. Scotland, Ireland, I.O.M. 10% extra. 71" high x 34" wide, 12" deep with 6 shelves as illustrated.

			No. of
Height	Width	Depth	Shelves
71"	34"	9"	6
71"	34"	12"	6
71"	34"	15"	6
85"	34"	12"	6
85"	42"	12"	6



42" high, 13" wide,
12" deep.
20 DRAWERS: 5" wide,
3" high, 11½" long.
Stove enamelled dark
green.
Direct from manufacturers.
Write now for list of
other sizes. now for list of other sizes.

C.W.O. or C.O.D.

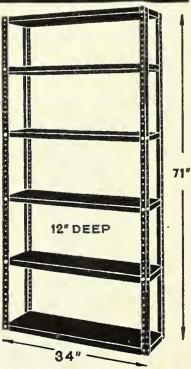


	each 3	Extra
Price	or more	5helves
58/-	56/-	7/~
60/-	58/-	8/-
69/-	67/-	9/6
73/-	66/-	8/
91/-	84/-	11/-

- EACH SHELF WILL HOLD OVER 3 CWT.
- SHELVES ADJUSTABLE EVERY 2"
- STOVE ENAMELLED DARK GREEN
- WHITE ENAMEL UNITS 30/- EXTRA

Controctors to H.M. Government ond U.K. Atomic Energy Authority.

Buy direct from the Manufacturers.



ANY SIZE MADE TO ORDER

OCHDALE METAL PRODUCTS

SHAWCLOUGH WORKS · WATERFOOT ROSSENDALE · LANCS. · ROSsendale 2450



Stand by to make 1962 your biggest selling, most profitable year with Color-Glo

Every week MILLIONS of women will be convinced by the nation-wide COLOR-GLO advertising! Big spaces, full colour in all magazines, and black and white in the National press, appear in:

It's the biggest advertising campaign ever launched for this successful, fast-selling product. Your customers can't miss it, and you can't miss making more sales, both new business and repeat! Get full benefit from this terrific advertising. Put COLOR-GLO where your customers can see it and make sure you've got...

The 13 beautiful Color-Glo Shades

DEEP RICH CHESTNUT • WARM CHESTNUT

BLACK TULIP • AUBURN • DEEP AUBURN • GOLDEN CHESTNUT

MOLTEN GOLD • DOVE GREY • HONEY BROWN

and the Color-Glo Sherry Shades DARK-BROWN SHERRY · BROWN SHERRY AMBER-BROWN SHERRY · LIGHT SHERRY WOMAN · WOMAN'S OWN
WOMEN'S REALM · WOMAN & BEAUTY
SHE · EVERYWOMAN · FLAIR
VANITY FAIR · MODERN WOMAN
WOMAN'S MIRROR · DAILY MIRROR
and SUNDAY PICTORIAL

Color-Glo trade mark

Semi-Permanent Hair Colouring

Price 23/- per dozen bottles, plus tax. Retail 3/9 per bottle

Manufactured and distributed by: GOLDEN LIMITED Berkeley Square House, Berkeley Square, London W 1 Mayfair 8240

Republic of Ireland enquiries to: Lilmar Pharmaceuticals Limited, Santry, Dublin

RIDDOVYDRIN ELIXIR

A NEW PREPARATION SPECIALLY COMPOUNDED TO MEET WITH THE NECESSITY OF A POTENT SYRUP TO RELIEVE ALL FORMS OF COUGHS ASSOCIATED WITH:-

ASTHMA, BRONCHITIS and INFLUENZA

CONTAINING VITAMIN C

ONE SIZE ONLY - 3oz. CARTONED PANEL UNSUITABLE FOR CHILDREN UNDER 14

RIDDELL PRODUCTS LIMITED

RIDDELL HOUSE · 10-14 DUNBRIDGE STREET · LONDON, E.2

AND AT MANCHESTER

PHONE: SHO 7254-5-6

POLI-GRIP SALES SOAR

Display Poli-Grip Cream and profit from the sales of America's most widely used cream fixative for dentures, now catching on so rapidly in this country. Sales so far this year are 58% up on 1961! Take advantage of this rising demand and order from your usual wholesaler now. Retail price 2/per tube.



STAFFORD-MILLER LTD., HATFIELD, HERTS

ESTABLISHED 1793

The Infants' Medicine of 150 years' standing

For teething and digestive troubles

13 ALISTAIR STREET, MANCHESTER, 1





OF THE NEW TORBET ADVERTISING Why not inform your customers about TORBET CALSALETTES 1/8½ & 6/8½ TORBET LACTIC OATS 2/1 & 4/2 TORBET LACTIC OAT CO. LTD., 24, Great King Street, Edinburgh, 3.

A NEW DISPLAY for

SHAVING BRUSHES

Each brush Guaranteed for 2 years



FREE with PARCEL No. 910 containing...

4 pcs. No. 20 PURE BRISTLE BRUSH Each in window carton RETAIL PRICE 4/11 EACH 4 pcs. No. 21 PURE BRISTLE BRUSH Each in acetate tube RETAIL PRICE 6/9 EACH 4 pcs. No. 22 PURE BRISTLE BRUSH Each in acetate tube RETAIL PRICE 8 6 EACH W.S.P. 45/- Plus P.T. RETURNS 80 8

PROGRESS SHAVING BRUSH (VULFIX) LIMITED

MOTTRAM STREET, STOCKPORT, CHESHIRE. Tel. STO 2147
London Office: 143 New Bond St. London W.I Tel. HYDe Park 3886-7

BOTANICALS CHEMICALS GUMS

ESSENTIAL OILS SPICES WAXES

MENTHOL

*
AGAR AGAR

ELEMI

LOBELIA

CASCARA IPECAC. OPIUM

JOHN KELLYS (LONDON) LTD.

24 OLD BROAD STREET, E.C.2.

Telephone: LONdon Wall 6585 (4 lines)
Telegrams: "Ergotine, Stock, London"
Telex: 28760



There's always a steady sale for



ZINC OXIDE PLASTER

EDWARD TAYLOR LTD MONTON, ECCLES, MANCHESTER

TF 228

THE CURL SET HAIR ROLLER



BETTER VALUE FOR LESS MONEY

Light Practical Durable

AVAILABLE IN 7 SIZES WITH OR WITHOUT BRUSHES INATTRACTIVE DISPLAY BOX

A. BURNET & CO LTD.

NOTION HOUSE, 66/7 NEWMAN ST., LONDON, W.I. Museum 0133

Do not disappoint your customers

-stock and display



Powders and tablets for the safe and speedy relief of headaches, colds, chills, rheumatic and nerve pains.

EX ALL LEADING WHOLESALE HOUSES



PRIDE

hair beauty PREPARATIONS **SELL ON SIGHT!**

Spraying Hair Lacquer

Retails at 3/6

The finest of hair lacquers with a delightful perfume available in the new Super Spray 3 oz. polythene bottle boxed in 1 doz. units in eye-catching display outers. Refill sachets also available packed in 1 doz, outers retail at 2/2.



Egg and Lemon

CREAM SHAMPOO Retails at 2/6

24 shampoos in plastic injector dispenser—Hair and scalp always kept at its best with this high-foaming soapless cream shampoo made from the natural benefits of shell eggs and luice of fresh lemons. Trial—3 shampoos, tubes 9d.; 3 individual shampoos linked together 10½d, all packed in display outers.



Scalp Milk Retails at 2/6

An alleviating scalp lotion for use after shampooing and before setting. Allays scurf irritation; quick drying action holds the hair, removes tangles, leaves hair free from all deposits and with a beautiful lustre.



PRIDE PRODUCTS SELL ON SIGHT I

These Fast-Selling lines are now being advertised continually in National magazines.

From your usual wholesaler or direct-

B. N. FURMAN (PRODUCTIONS) LTD., 133 Fonthill Road, N.4

For Chemists only ...







Note These Prices!

ASPIRIN (B.P. 5 grain)

Bottles of: 25 tablets 2/11 per dozen

", ", 50 ", 4/11 ", "

", ", 100 ", 7/9 ", "

CODEINE Compound B.P.

Bottles of: 12 tablets 5/3 per dozen

"" ", 25 ", 9/- ", "

" ", 50 ", 16/- ", "

" ", 100 ", 30/- "

A.P.C. (B.P.C.)

Bottles of: 25 tablets 6'- per dozen
,, ,, 100 ,, 18'- " "

 $2\frac{1}{2}$ per cent cash with order in seven days. Carriage paid over £3

PLEASE NOTE:

We undertake to supply Chemists Only. Although we have received numerous enquiries from other sources it is not our intention to deviate from our original policy.

DEV PRODUCTS

HOLYWELL TRADING ESTATE · WATFORD
Telephone: Watford 21812



Not something you actively sell, or need to sell, but a trusted product which sells itself

Surely, therefore, it is only fair to your customers to discreetly announce the fact that you are a supplier of Family Planning requisites, so that they can be sure you are stocking before they make their purchase.



Please ask for copies of the booklet "Modern Family Planning" as well as the perspex shelf strip "Family Planning Requisites."



DUREX GOSSAMER



Now in the new 12 pack

Durex Gossamer is the new lubricated protective with the famous name behind it. It answers the problem of reliability with increased sensitivity. In 3 or 12 packs, 3/9 or 15/-. you'd never guess

I wear elastic hosiery

TWO-WAY-STRETCH SURGICAL ELASTIC UNCIEDY

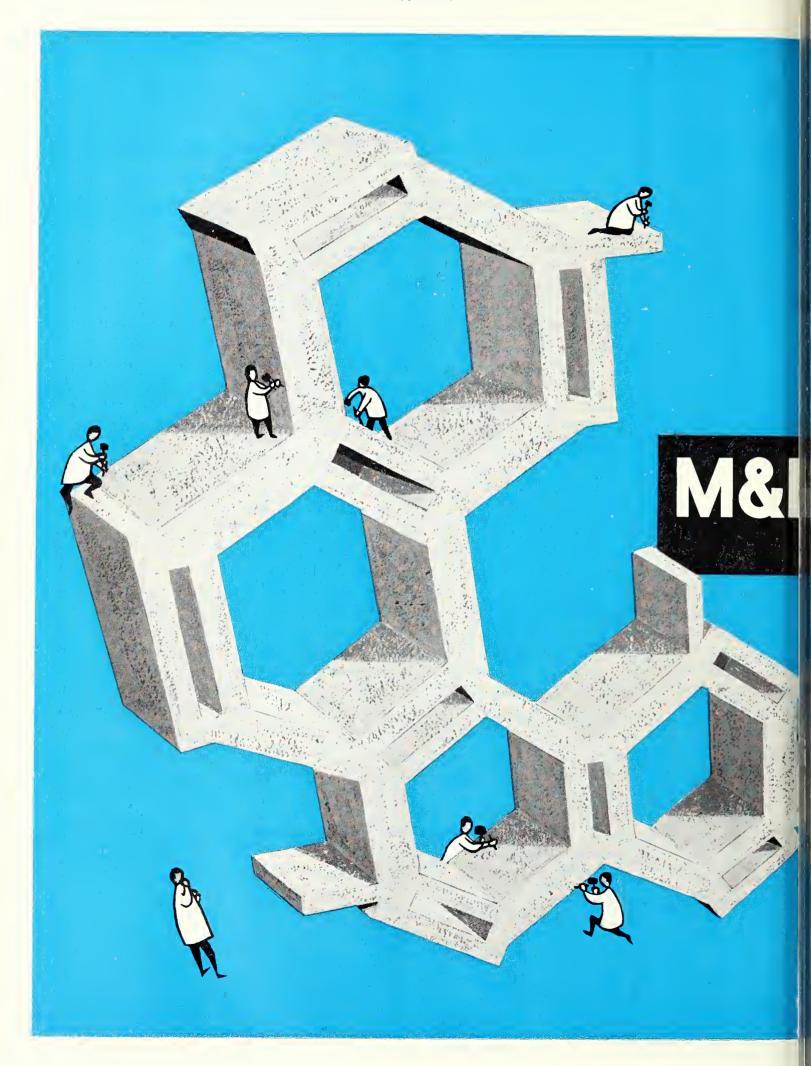
Self measurement forms and fitting guide supplied.

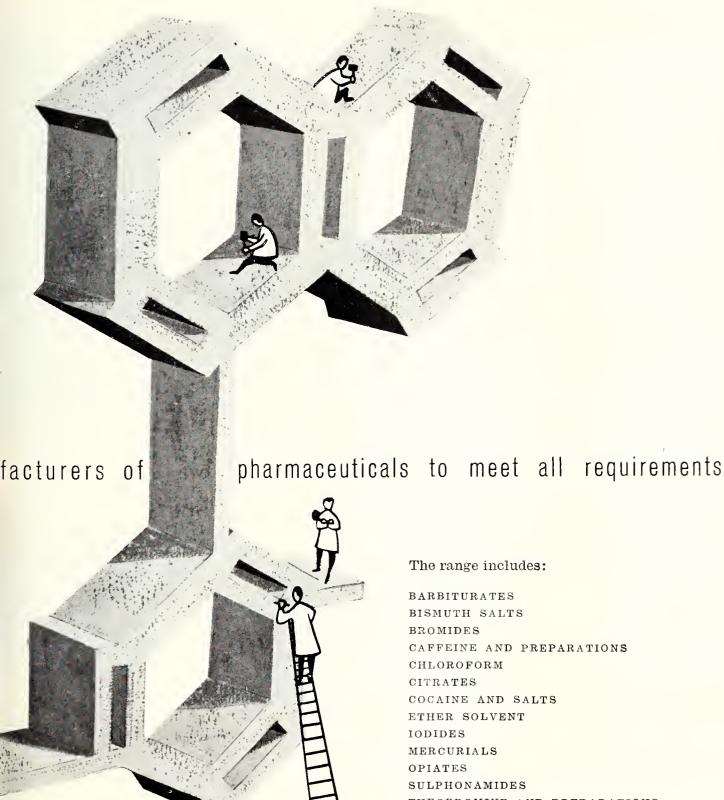
Made in cotton or nylon to N.H.S. Specification and packed in attractive boxes

Made to measure hosiery despatched by return.

WOOD BASTOW (ELASTICS)LTD.

Dove Green, Selston, Nottinghamshire, and at Victoria Road, Pinxton, Notts.





THEOBROMINE AND PREPARATIONS THEOPHYLLINE AND RELATED COMPOUNDS

M&B brand Pharmaceuticals

MANUFACTURED BY

MAY & BAKER LTD

DAGENHAM ESSEX

Tel: Dominion 3060 Exts. 317 & 318



for fine chemicals especially:

ASPIRIN B.P. "FRE-FLO" SALICYLIC ACID B.P. SODIUM SALICYLATE B.P.

SALOL B.P.C.

VANILLIN 100%

H. W. GRAESSER-THOMAS LIMITED

49 LEADENHALL STREET, LONDON, E.C.3

TELEPHONES: ROYAL 3011-6111



Teacher Beaker

New model in sterilisable high density Polythene, individually boxed in attractive cartons.

Wholesale: 31/8d. doz. + 10% P.T.

Retail: 4/3d. each.

Made by J. L. CAPLIN LTD.

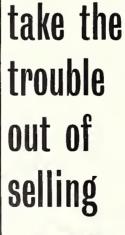
178/180 Homerton High Street, London, E.9.





Order from your usual Wholesaler

GODDARDS





15 sec spots

Goddards Embrocation take the trouble out of selling with regular 1S second television spots in London and the Midlands.
Sales prove these ' time tested'' products bring satisfied customers-

more profit for you.

J. G. GODDARD & CO. LTD.

100 MONCRIEFF ST., PECKHAM, S.E.15. NEW X. 0767

Regular sales assured



with Shadeine

-the permanent safe HOME tint for GREY hair

Still the best home tint for grey hair. All natural shades. Safe and harmless. Trade Prices—1 oz. 33/8 per dozen. 2 oz. 42/8 dozen. P. Tax 45%. Retail 5/- and 6/4 per bottle respectively.

ALSO GOLDEN SHADEINE

For brightening mousey hair. Trade Price—2 oz. size 32/9 per dozen. P. Tax 55%. Retail 5/2 per bottle.

THE SHADEINE COMPANY LTD. 49 CHURCHFIELD RD., ACTON, LONDON, W.3 Over SIXTY YEARS' Reputation

Shadeine





Popular L'Oreal Bleach and new formula Tress
both get exciting modern packs plus nationwide advertising designed to
shift stocks off your shelves faster, push your profits higher...

From June 1962 to April 1963, L'Oreal Bleach takes regular spaces in the big circulation newspapers—Sunday Pictorial and Daily Mirror, as well as Woman, Woman's Mirror and Honey. Your customers will want to see L'Oreal Bleach in your shop, and when they do they'll be sold on the gay good looks of the new quality pack.

From June 1962 to March 1963, millions of readers of Woman, Woman's Own, Woman's Realm, Woman's Mirror, Daily Mirror and Sunday

Express will all be told over and over again about the important difference in Tress—a new French formula which gives hair the fullness that's needed for modern styles. Women will be persuaded to try New Tress and see how it really does make sets last twice as long and condition hair to shining beauty.

* Gaily packed L'Oreal Bleach and New Tress deserve a good place on your shelves — stock up now and see how soon they leave you with profits that jump up and up!

NEW PRICES L'OREAL BLEACH

Retail Price 3/- per carton

Trade Price 18/5 per dozen cartons plus tax

NEW TRESS

Small Size

Retail Price 1/10 per bottle

Trade Price 10/9 per dozen bottles

Large Size

Retail Price 3/- per bottle

Trade Price 18/5 per dozen bottles plus tax

NORLAND PHOTOGRAPHIC DISPLAY UNITS



NORLAND "JC" **DISPLAY COUNTER**

Ideal contemporary Photographic Counter, 3ft, 0in, high x 18in, back to front. Glazed in in, best quality plate. Interior in Polished Sycamore, fitted at rear with a pair of flush Sliding Doors Stock drawers below,

4ft. long £37.10.0 5ft. long £38.10.0 6ft. long £39.10.0 (ex-works)

Deferred Payments can be arranged

Displays that attract and sell!

NORLAND DISPLAY UNITS GIVE THE SMALLEST PHOTO-IC SHOP THE SELLING GRAPHIC SHOP THE POWER OF A STORE, and provide a maximum display area! Every Unit is specially designed to provide attractive presentation with fast and easy access to photographic equipment, films or chemicals, Modern styling and strength are skilfully combined to blend with contemporary Direct from schemes. Manufacturer.

SHOP FRONTS

Your enquiries welcomed





P.H.2 FILM UNIT

This fitting has a dispenser designed for the quick and easy sale of films. It is divided at the back by glass partitions and as a film is removed so another drops into its place. A display section—fitted above the dispenser unit, has glass sliding doors and glass shelf, while below is a drawer and stock cupboard unit with flush sliding oak doors. The unit is French polished in light oak and has an angled cornice running the full length of the fitting in either an oak or cbony finish. As illustrated 5ft, long x 7ft, high

with 20 drawers

ex-warks £77

6ft, long x 7ft, high with 25 drawers

ex-warks £85

Quotations gladly submitted ta your special designs

LIDDLE KEEN & CO. LTD NORLAND YARD, LONDON W.II Tel: PARK 9881/2



GOODS to European Markets

IN THROUGH WAGONS

every day

HARWICH — ZEEBRUGGE DOVER — DUNKERQUE

Packing and handling absolute minimum

Full particulars from: Continental Traffic & Shipping Manager, Harwich House, 129 Bishopsgate, London, E.C.2. for Harwich route and Chief Shipping & Continental Manager, Victoria Station, London, S.W.1. for Dover route.

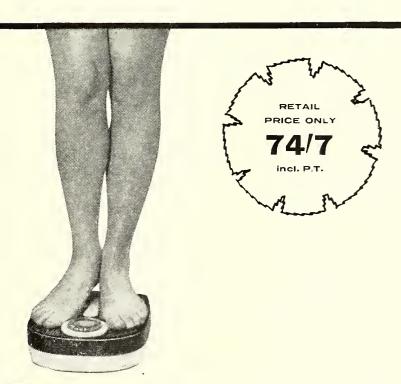




The modern weigh is to sell a MAYFAIR every day

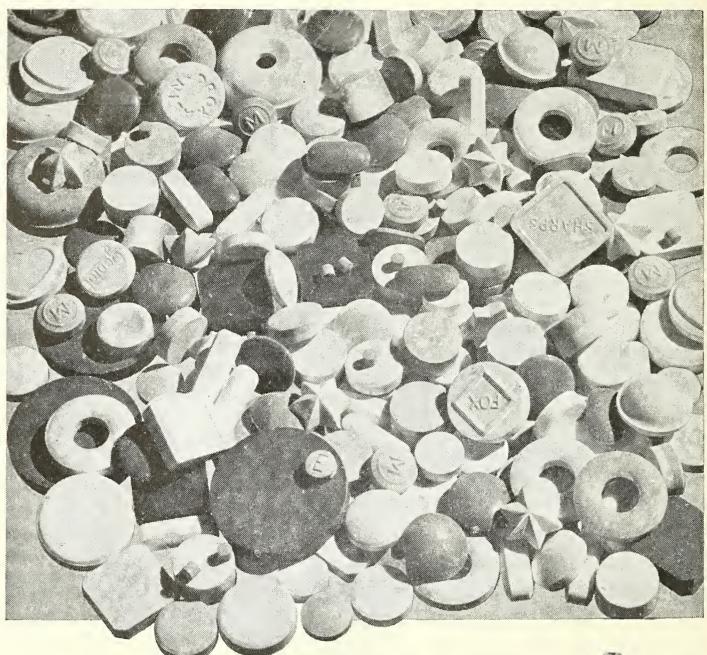


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salary and conditions, Applications to the
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C 7658

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C 7659

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C 590

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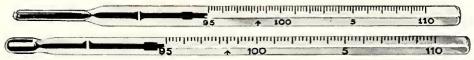
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